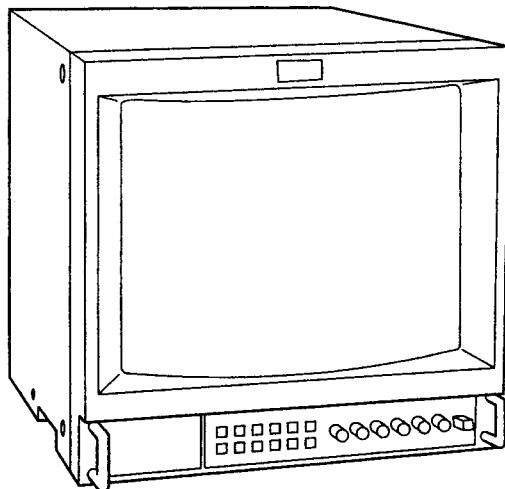


SERVICE MANUAL

MODEL	DEST.	CHASSIS NO.	MODEL	DEST.	CHASSIS NO.
PVM-14M2U	US Canadian	SCC-G61J-A	PVM-14M4E	AEP	SCC-G62F-A
PVM-14M4U	US Canadian	SCC-G61G-A	PVM-14M2A	Australian	SCC-N17A-A
PVM-14M2E	AEP	SCC-G62HA	PVM-14M4A	Australian	SCC-N17B-A



 Trinitron

PVM-14M4U/14M4E

Trinitron

PVM-14M2U/14M2E

TRINITRON® COLOR VIDEO MONITOR

SONY.

SPECIFICATIONS

Video signal

For PVM-14M4U/14M4E/20M4U/20M4E:

Color system	NTSC, PAL, SECAM, NTSC ^{4,43}
Resolution	800 TV lines
Aperture correction	0 dB to +6 dB
Frequency response	
LINE	10 MHz ± 3 dB (Y signal)
RGB	10 MHz ± 3 dB
Synchronization	AFC time constant 1.0 msec.

For PVM-14M2U/14M2E/20M2U/20M2E:

Color system	NTSC, PAL, SECAM, NTSC ^{4,43}
Resolution	600 TV lines
Aperture correction	0 dB to +6 dB
Frequency response	
LINE	10 MHz ± 3 dB (Y signal)
RGB	10 MHz ± 3 dB
Synchronization	AFC time constant 1.0 msec.

Picture performance

For PVM-14M4U/14M4E/14M2U/14M2E:

Normal scan	7 % over scan of CRT effective screen area
Under scan	5 % underscan of CRT effective screen area
H. linearity	Less than 4.0 % (typical)
V. linearity	Less than 4.0 % (typical)
Convergence	
Central area:	0.4 mm (typical)
Peripheral area:	0.5 mm (typical)
Raster size stability	H: 1.0%, V: 1.5%
High voltage regulation	3.5 %
Color temperature	D65/D93, selectable USER (3,200K–10,000K, factory setting is D65)

For PVM-20M4U/20M4E:

Normal scan	7 % over scan of CRT effective screen area
Under scan	5 % underscan of CRT effective screen area
H. linearity	Less than 5.0 % (typical)
V. linearity	Less than 5.0 % (typical)
Convergence	
Central area:	0.5 mm (typical)
Peripheral area:	0.7 mm (typical)
Raster size stability	H: 1.0%, V: 1.5%
High voltage regulation	4.0 %
Color temperature	D65/D93, selectable USER (3,200K–10,000K, factory setting is D65)

For PVM-20M2U/20M2E

Normal scan	7 % over scan of CRT effective screen area
Under scan	5 % underscan of CRT effective screen area
H. linearity	Less than 5.0 % (typical)
V. linearity	Less than 5.0 % (typical)
Convergence	
Central area:	0.6 mm (typical)
Peripheral area:	1.0 mm (typical)
Raster size stability	H: 1.0%, V: 1.5%
High voltage regulation	4.0 %
Color temperature	D65/D93, selectable USER (3,200K–10,000K, factory setting is D65)

Inputs

For PVM-14M4U/14M4E/20M4U/20M4E:

LINE A/B	
VIDEO IN	BNC connector (x2), 1Vp-p ±6 dB, sync negative Automatic 75 ohms termination
AUDIO IN	Phono jack (x2), -5 dBu ^a , more than 47 kilo-ohms
LINE C	
Y/C IN	4-pin mini-DIN (x1) See the pin assignment on page 19.
AUDIO IN	Phono jack (x1), -5 dBu ^a , more than 47 kilo-ohms
RGB/COMPONENT	
R/R-Y,G/Y,B/B-Y IN	BNC connector (x3) R, G, B channels: 0.7 Vp-p, ±6 dB Sync on green: 0.3 Vp-p, negative
R-Y, B-Y channels	0.7 Vp-p, ±6 dB
Y channel	0.7 Vp-p, ±6 dB (Standard color bar signal of 75% chrominance)
AUDIO IN	Automatic 75 ohms termination Phono jack (x1), -5 dBu ^a , more than 47 kilo-ohms
EXT SYNC IN	BNC connector (x1) 4 Vp-p, ±6 dB, sync negative
REMOTE	20-pin connector (x1) See the pin assignment on page 19.

a) 0 dBu = 0.775 Vr.m.s.

For PVM-14M2U/14M2E/20M2U/20M2E:

LINE A/B

VIDEO IN	BNC connector (x2), 1 Vp-p ± 6dB, sync negative Automatic 75 ohms termination
AUDIO IN	Phono jack (x2), -5 dBu ^{a)} , more than 47 kilo-ohms
LINE C	
Y/C IN	4-pin mini-DIN (x1) See the pin assignment on page 19.
AUDIO IN	Phono jack (x1), -5 dBu ^{a)} , more than 47 kilo-ohms

RGB/COMPONENT

R/R-Y,G/Y,B/B-Y IN	BNC connector (x3)
R, G, B channels	0.7 Vp-p ± 6dB
Sync on green	0.3 Vp-p negative
R-Y, B-Y channel	0.7 Vp-p ± 6dB
Y channel	0.7 Vp-p ± 6dB (Standard color bar signal of 75% chrominance)
	Automatic 75 ohms termination
AUDIO IN	Phono jack (x1), -5 dBu ^{a)} , more than 47 kilo-ohms
EXT SYNC IN	BNC connector (x1) 4 Vp-p, ±6 dB, sync negative
REMOTE	20-pin connector (x1) See the pin assignment on page 19.

a) 0 dBu = 0.775 Vr.m.s.

Outputs (common to all models)

LINE A/B

VIDEO OUT	BNC connector (x2) loop-through, Automatic 75 ohms termination
AUDIO OUT	Phono jack (x2) loop-through

LINE C

Y/C OUT	4-pin mini-DIN (x1) loop-through, Automatic 75 ohms termination
AUDIO OUT	Phono jack (x1) loop-through

RGB/COMPONENT

R/R-Y,G/Y,B/B-Y OUT	BNC connector (x3) loop-through Automatic 75 ohms termination
AUDIO OUT	Phono jack (x1) loop-through
EXT SYNC OUT	BNC connector (x1) Automatic 75 ohms termination
Speaker output	Output level: 0.8 W

General

For PVM-14M4U:

CRT	SMPTE-C phosphor
Power consumption	90 Wh (with SDI: 99 Wh)
Power requirements	120 V AC, 50/60Hz
Operating temperature	0 to +35°C (32 to 95°F)
Storage temperature	-10 to +40°C (14 to 104°F)
Operating humidity	35 to 85% (no condensation)
Storage humidity	0 to 90%
Dimensions (w/h/d)	Approx. 346 × 340 × 431 mm (13½ × 13½ × 17 inches) not incl. projecting parts and controls
Mass	Approx. 16.7kg (36 lb 13 oz)
Accessory supplied	AC power cord (1) AC plug holder (1) Tally label (1) Cable with a 20-pin connector (1)

For PVM-14M4E:

CRT	EBU phosphor
Power consumption	90 Wh (with SDI: 99 Wh)
Power requirements	100 to 240 V AC, 50/60Hz
Operating temperature	0 to +35°C (32 to 95°F)
Storage temperature	-10 to +40°C (14 to 104°F)
Operating humidity	35 to 85% (no condensation)
Storage humidity	0 to 90%
Dimensions (w/h/d)	Approx. 346 × 340 × 431 mm (13½ × 13½ × 17 inches) not incl. projecting parts and controls
Mass	Approx. 16.7kg (36 lb 13 oz)
Accessory supplied	AC power cord (1) AC plug holder (1) Tally label (1) Cable with a 20-pin connector (1)

For PVM-14M2U:

CRT	P-22 phosphor
Power consumption	90 Wh (with SDI: 99 Wh)
Power requirements	120 V AC, 50/60Hz
Operating temperature	0 to +35°C (32 to 95°F)
Storage temperature	-10 to +40°C (14 to 104°F)
Operating humidity	35 to 85% (no condensation)
Storage humidity	0 to 90%
Dimensions (w/h/d)	Approx. 346 × 340 × 431 mm (13½ × 13½ × 17 inches) not incl. projecting parts and controls
Mass	Approx. 16.7kg (36 lb 13 oz)
Accessory supplied	AC power cord (1) AC plug holder (1) Tally label (1) Cable with a 20-pin connector (1)

For PVM-14M2E:

CRT P-22 phosphor
Power consumption 90 Wh (with SDI: 99 Wh)
Power requirements 100 to 240 V AC, 50/60Hz
Operating temperature 0 to +35°C (32 to 95°F)
Storage temperature -10 to +40°C (14 to 104°F)
Operating humidity 35 to 85% (no condensation)
Storage humidity 0 to 90%
Dimensions (w/h/d) Approx. 346 × 340 × 431 mm
(13½ × 13½ × 17 inches)
not incl. projecting parts and controls
Mass Approx. 16.7kg (36 lb 13 oz)
Accessory supplied AC power cord (1)
AC plug holder (1)
Tally label (1)
Cable with a 20-pin connector (1)

For PVM-20M4U:

CRT SMPTE-C phosphor
Power consumption 125 Wh (with SDI: 135 Wh)
Power requirements 120 V AC, 50/60Hz
Operating temperature 0 to +35°C (32 to 95°F)
Storage temperature -10 to +40°C (14 to 104°F)
Operating humidity 35 to 85% (no condensation)
Storage humidity 0 to 90%
Dimensions (w/h/d) Approx. 450 × 458 × 503 mm
(17¾ × 18⅛ × 19¾ inches)
not incl. projecting parts and controls
Mass Approx. 30.0 kg (66 lb 2 oz)
Accessory supplied AC power cord (1)
AC plug holder (1)
Tally label (1)
Cable with a 20-pin connector (1)

For PVM-20M4E:

CRT EBU phosphor
Power consumption 130 Wh (with SDI: 140 Wh)
Power requirements 100 to 240 V AC, 50/60Hz
Operating temperature 0 to +35°C (32 to 95°F)
Storage temperature -10 to +40°C (14 to 104°F)
Operating humidity 35 to 85% (no condensation)
Storage humidity 0 to 90%
Dimensions (w/h/d) Approx. 450 × 458 × 503 mm
(17¾ × 18⅛ × 19¾ inches)
not incl. projecting parts and controls
Mass Approx. 30.0 kg (66 lb 2 oz)
Accessory supplied AC power cord (1)
AC plug holder (1)
Tally label (1)
Cable with a 20-pin connector (1)

For PVM-20M2U:

CRT P-22 phosphor
Power consumption 115 Wh (with SDI: 125 Wh)
Power requirements 120 V AC, 50/60Hz
Operating temperature 0 to +35°C (32 to 95°F)
Storage temperature -10 to +40°C (14 to 104°F)
Operating humidity 35 to 85% (no condensation)
Storage humidity 0 to 90%
Dimensions (w/h/d) Approx. 450 × 458 × 503 mm
(17¾ × 18⅛ × 19¾ inches)
not incl. projecting parts and controls
Mass Approx. 30.0 kg (66 lb 2 oz)
Accessory supplied AC power cord (1)
AC plug holder (1)
Tally label (1)
Cable with a 20-pin connector (1)

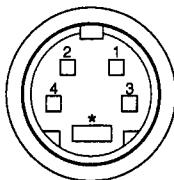
For PVM-20M2E:

CRT P-22 phosphor
Power consumption 120 Wh (with SDI: 130 Wh)
Power requirements 100 to 240 V AC, 50/60Hz
Operating temperature 0 to +35°C (32 to 95°F)
Storage temperature -10 to +40°C (14 to 104°F)
Operating humidity 35 to 85% (no condensation)
Storage humidity 0 to 90%
Dimensions (w/h/d) Approx. 450 × 458 × 503 mm
(17¾ × 18⅛ × 19¾ inches)
not incl. projecting parts and controls
Mass Approx. 30.0 kg (66 lb 2 oz)
Accessory supplied AC power cord (1)
AC plug holder (1)
Tally label (1)
Cable with a 20-pin connector (1)

Design and specifications are subject to change
without notice.

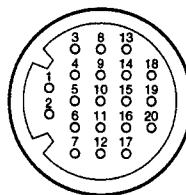
Pin assignment

Y/C IN connector (4-pin mini-DIN)



Pin No.	Signal	Description
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA subcarrier-input	300m Vp-p, burst Delay time between Y and C: within 0 ± 100 nsec., 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA-input	GND

REMOTE connector (20-pin)



Pin No.	Signal	Wire color
1	Blue only	Brown
2	H/V DELAY	Red
3	MAIN/SUB*	Orange
4	EXT SYNC	Yellow
5	DEGAUSS	Green
6	R ch ON/OFF*	Blue
7	TALLY	Purple
8	LINE B	Grey
9	GND	White
10	GND	Black
11	GND	Pink
12	GND	Light Blue
13	LINE A	Spiral Orange
14	LINE/RGB	Spiral Yellow
15	GND	Spiral Green
16	L ch ON/OFF*	Spiral Blue
17	REMOTE	Spiral Purple
18	LINE C	Spiral Grey
19	UNDER SCAN	Spiral Pink
20	16:9	Spiral Light Blue

(* For digital audio control)

How to connect a remote control unit

Connect No.17 pin to one of the GND pins (No.9 – 12, and 15), then connect pins for the functions you want to use to other GND pins (No.9 – 12, and 15).

How to light the tally lamp

Connect No.7 pin to one of the GND pins (No.9 – 12, and 15).

SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the metal trim, metallized knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

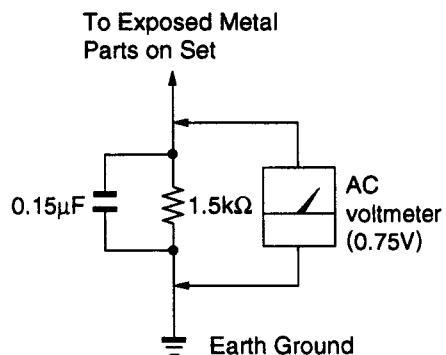


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

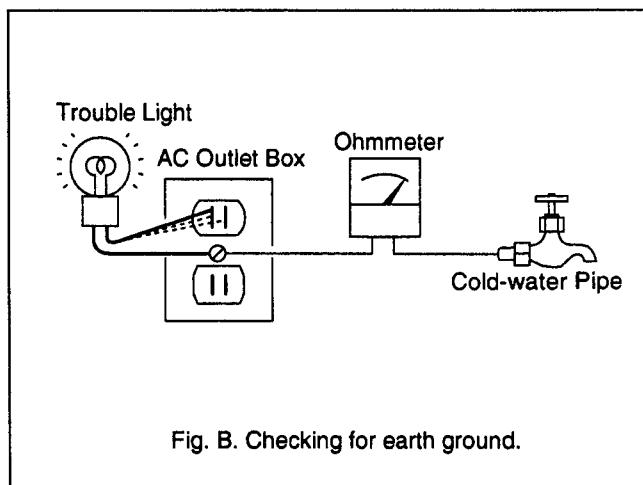


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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINT SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE. LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE A L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

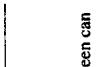
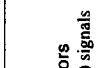
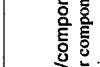
LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTE.

SECTION 1

GENERAL

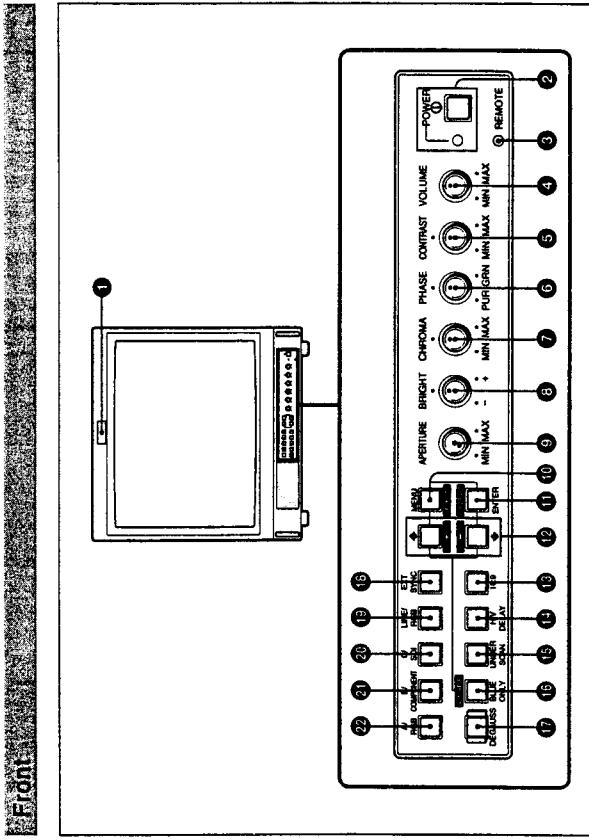
Features

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Picture	Input	Functions
	Analog RGB/component input connectors Analog RGB or component (Y, R-Y and B-Y) signals from video equipment can be input through these connectors.	Underscan mode The signal normally scanned outside of the screen can be monitored in the underscan mode. Note: When the monitor is in the underscan mode, the dark RGB scanning lines may appear on the top edge of the screen. These are caused by an internal test signal, rather than the input signal.
	Y/C input connectors The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, ensuring video quality.	Horizontal/vertical delay mode The horizontal and vertical sync signals can be checked simultaneously in the H/V delay mode.
	External sync input When the EXT SYNC selector is in the on position, the monitor can be operated on the sync signal supplied from an external sync generator.	Auto/manual degaussing Degaussing of the screen can be performed automatically when the power is turned on, or manually by pressing the DEGAUSS button.
	Automatic termination (Connector with ΔV mark only) The input connector is terminated at 75 ohms inside when no cable is connected to the loop-through output connector. When a cable is connected to an output connector, the 75-ohm termination is automatically released.	On-screen menus You can set color temperature, CHROMA SET UP, and other settings by using the on-screen menus.
	Beam current feedback circuit The built-in beam current feedback circuit assures stable white balance.	Note: When the serial number of the BKM-101C, you want to connect is less than 2,010,000, an optional connecting harness (part no. 1-900-230-35) will be required.
	Four color system available The monitor can display NTSC, PAL, SECAM and NTSC. ⁴²⁾ signals. The appropriate color system is selected automatically.	Serial Remote Interface Kit By using the optional BKM-103 Serial Remote Interface Kit, the monitor can be controlled from personal computers via the RS-422A serial interface.
	Blue only mode In the blue only mode, an apparent monochrome display is obtained with all three cathodes driven with a blue signal. This facilitates color saturation and phase adjustments and observation of VCR noise.	

1) "Trinitron" is a registered trademark of Sony Corporation.
 2) The NTSC₄₁₎ system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz. When an NTSC recorded video program is played back with a Trident (PAL/SECAM/NTSC₄₁₎) VTR, the NTSC₄₁₎ signal is output.

Location and Function of Parts and Controls



① TALLY lamp
Lights up when the video camera connected to this monitor is selected, indicating that the picture is being recorded.
For details on how to light the tally lamp, see page 19.

② POWER switch and indicator
Depress to turn on the monitor. The indicator will light green.

③ REMOTE indicator
Lights up when you select ON on the USER PRESET menu (see page 13), or when you connect a supplied cable to the REMOTE connector. The controls on the front panel do not work when this indicator lights up. For details on how to connect the cable, see page 19.

④ VOLUME control
Turn this control clockwise to increase the volume or counterclockwise to decrease it.

⑤ CONTRAST control
Turn this control clockwise to make the contrast higher or counterclockwise to make it lower.

⑥ PHASE control
This control is effective only for the NTSC and NTSC_{4.43} color systems. Turn it clockwise to make the skin tones greenish or counterclockwise to make them purplish.

⑦ CHROMA control
Turn this control clockwise to increase the color intensity or counterclockwise to decrease it.

⑧ BRIGHT (brightness) control
Turn this control clockwise to increase the brightness or counterclockwise to decrease it.

⑨ APERTURE control
Turn this control clockwise to increase sharpness or counterclockwise to decrease sharpness.

⑩ DEGAUSS button
Press this button momentarily. The screen will be demagnetized. Wait for 10 minutes or more before using this button again.

⑪ MENU (EXIT) button
Press this button to display the main menu. When a menu is on the display, you can return to the previous menu by pressing this button.

⑫ ENTER (SELECT) button
Press the button to confirm a selected item on the menu.

⑬ ↑/↓/+/- buttons
Press the buttons to move the cursor (►) or adjust selected item on the menu.

⑭ 16:9 selector
Press this selector (light on) to monitor the signals of 16:9 picture.

⑮ H/V DELAY selector
Press this selector (light on) to observe the horizontal and vertical sync. signals at the same time. The horizontal sync signal is displayed in the left quarter of the screen; the vertical sync signal is displayed near the center of the screen.

⑯ C/SDI selector
When the LINE/RGB input selector is set to the LINE position (light off), press this selector (light on) to monitor the signal through the LINE C connectors.

⑰ EXT SYNC (external sync) selector
Set this selector to the off position (light off) to operate the monitor on the sync signal from the displayed video signal.

⑱ LINE/RGB input selector
Press this selector to the on position (light on) to operate the monitor on an external sync signal through the EXT SYNC connector.

⑲ LINE/RGB input selector
Press this selector to select the input to be monitored.

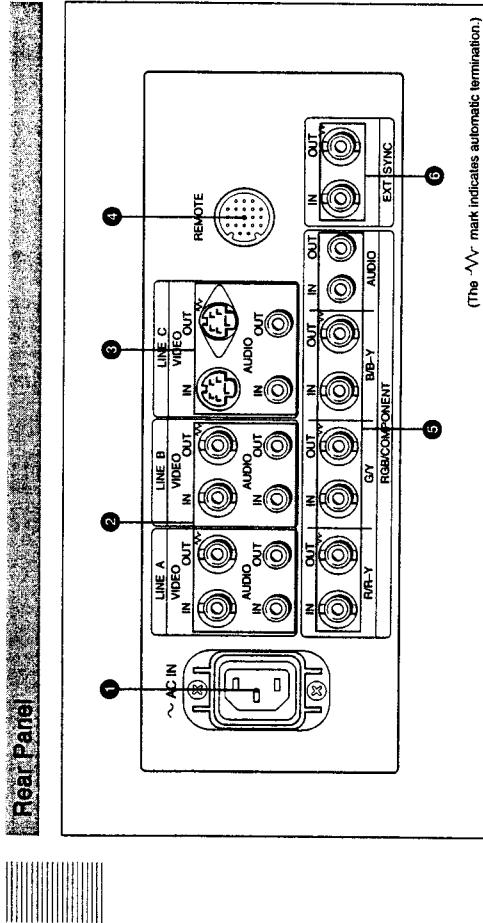
⑳ B/COMPONENT selector
When the LINE/RGB input selector is set to the LINE position (light off), press this selector (light on) to monitor the SDI signal (optional kits are required).

⑳ A/RGB selector
When the LINE/RGB input selector is set to the RGB position (light on), press this selector (light on) to monitor the component signal through the RGB/COMPONENT connectors.

⑳ POWER
When the LINE/RGB input selector is set to the LINE position (light off), press this selector (light on) to monitor the signal through the LINE B connectors.

⑳ REMOTE
When the LINE/RGB input selector is set to the RGB position (light on), press this selector (light on) to monitor the component signal through the RGB/COMPONENT connectors.

Location and Function of Parts and Controls



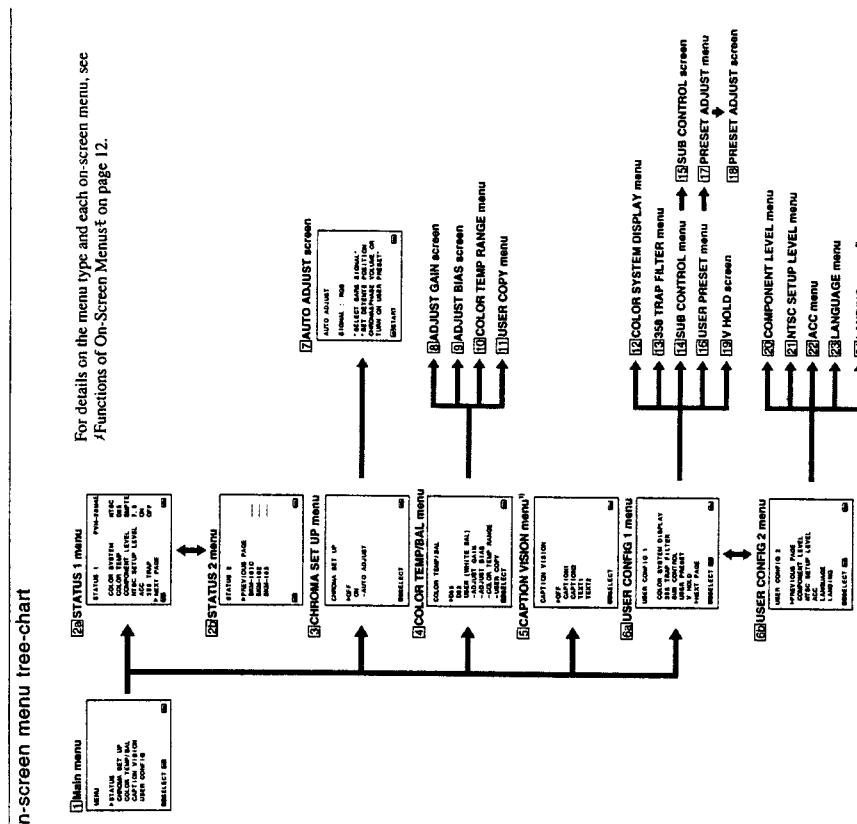
AUDIO IN (phono jack)	To output the component signal Connect to the R-Y/B-Y component signal inputs of a Betacam video recorder, etc.
AUDIO OUT (phono jack)	Loop-through output of the AUDIO IN connector. Connect to the audio output of video equipment when the analog RGB or component signal is input.
REMOTE connector (20-pin)	Connect to the tally output of a control console, special-effect generator, etc. The tally lamp on the front panel will be turned on and off by the connected equipment. This connector can also be used for connecting a remote control unit. For details on the pin assignment of this connector, see page 19.
RGB/COMPONENT connectors	RGB signal or component signal input connectors and their loop-through output connectors. To monitor the input signal through these connectors, set the LINE/RGB selector to the RGB position (light on), and press the A/RGB or B/COMPONENT selector (light on). R-Y IN, G/Y IN, B/B-Y IN (BNC) When the EXT SYNC selector is set to the off position (light off), the monitor operates on the sync signal from the G/Y channel.
VIDEO IN (BNC)	AUDIO IN (phono jack) Connect to the audio output of a VCR or to a microphone via a suitable microphone amplifier. For a loop-through connection, connect to the audio output of another monitor.
VIDEO OUT (BNC)	AUDIO OUT (phono jack) Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.
Y/C OUT (4-pin mini-DIN)	LINE C connectors Y/C IN (4-pin mini-DIN) Connect to the Y/C separate output of a video camera, VCR or other video equipment. For a loop-through connection, connect to the Y/C separate output of a VCR or another monitor.
Y/C OUT (4-pin mini-DIN)	Y/C OUT (4-pin mini-DIN) Loop-through output of the Y/C IN connector. Connect to the Y/C separate input of a VCR or another monitor. When the cable is connected to this connector, the 75- ohm termination of the input is automatically released, and the signal input to the Y/C IN connector is output from this connector.

Using On-Screen Menus

You can make various settings and adjustments of the monitor using the on-screen menus.

On-Screen Menu Configuration

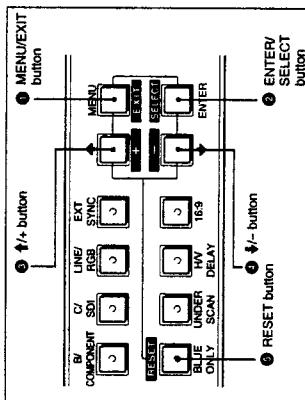
On-screen menu tree-chart



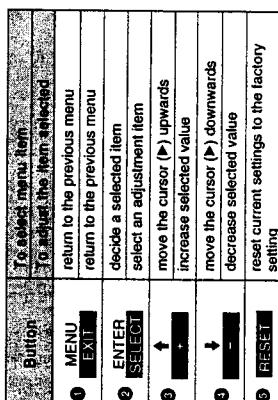
Operation through On-Screen Menus

Menu operation buttons

There are five menu operation buttons on the front panel of the monitor.

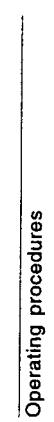
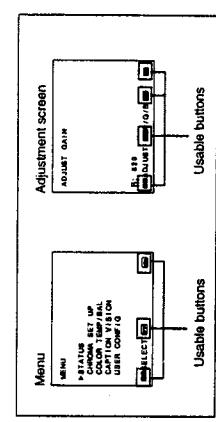


The following table shows how these five buttons function when using the menus.



For detailed information of menus, see 'Functions of On-Screen Menus' on page 12.

The buttons that can be used on the menus and adjustment screens are displayed at the bottom of the screen. You can perform menu operation using the displayed buttons.

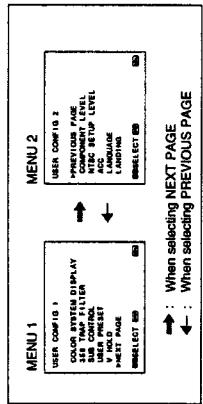


- 1 Press the MENU/EXIT (②) button.
- 2 Move the cursor (①) to the desired setting menu by pressing the ↓ or ↑/↓ (①, ②) button.
- 3 Press the ENTER/SELECT (②) button.
- 4 The setting menu selected in step 2 appears.
- 5 Press the ENTER/SELECT (②) button.
- 6 The adjustment screen or setting menu selected in step 4 appears.

- 1) ⑤ CAPTION VISION menu is provided with PVM-14M4U/14M2U/20M4U/20M2U only.
- 2) ⑨ LANDING screen is provided with PVM-20M4U/20M4E only.

Using On-Screen Menus

To display the next (or previous) page of the menus
Select NEXT PAGE on the menu to display the next page and PREVIOUS PAGE on the menu to display the previous page.



How to display the next or the previous page
To close the menu (to return to the regular screen)
Each time you press the MENU/EXIT (①) button, the on-screen menu returns to the one previously displayed. Press the MENU/EXIT (①) button repeatedly until the regular screen appears.

Functions of On-Screen Menus

There are four types of on-screen menus.

Main menu
You can enter another menu such as status menu or setting menu.

Status menu

You can confirm the current settings.

Setting menu

You can select an item or enter an adjustment screen on this menu by using the \uparrow/\downarrow , \leftarrow/\rightarrow and ENTER/SELECT buttons.

Adjustment screen

You can make adjustments on this screen. The adjustments you made remain unchanged until next change even if you turn off the power.

(①) indicates the factory setting.)

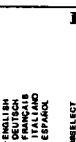
① Main menu
Select another menu and press ENTER/SELECT to go to the menu.

② STATUS 1 menu

Shows the current settings.

③ STATUS 2 menu

Shows what optional kit is installed in the monitor.
For PVM-14M4E/14M2E/20M4E/20M2E:
For the first time when the monitor is turned on, the LANGUAGE menu (②) will appear on the screen. So, select the language you want to use.



- Move the cursor (\blacktriangleright) to the desired language by pressing the $\downarrow/-$ or $\uparrow/+$ (④, ⑤) button.
- Press the MENU/EXIT (①) button.

Note:

Unless you press the MENU/EXIT (①) button in the procedure above, the LANGUAGE menu will always appear whenever you turn on the monitor.

USER CONFIG 1 menu

Select an item to adjust on the menus and screens (⑫ through ⑯). To go to the USER CONFIG 2 menu, select NEXT PAGE.

USER CONFIG 2 menu

Select an item to adjust on the menus and screens (⑯ through ⑰). To go to the USER CONFIG 1 menu select PREVIOUS PAGE.

AUTO ADJUST screen

Select the color bar signal (full, SMPTE, EIA) and press ENTER/SELECT to start automatic "chroma" and "phase" (NTSC signal only) adjustments. To activate these adjustments, select ON on the CHROMA SET UP menu (③).

ADJUST GAIN screen

Adjust GAIN in USER mode.

ADJUST BIAS screen

Adjust BIAS in USER mode.

COLOR TEMP RANGE menu

Select the color temperature range in USER mode. [5000K-10000K]

USER COPY menu

Store the factory setting of D65 or D93 as the value for USER mode.

COLOR SYSTEM DISPLAY menu

Select the color system type. When AUTO is selected, the color system type being used appears on the screen each time you change the signal input. [AUTO]

358 TRAP FILTER menu

Color spill or color noise may be eliminated if you select ON (NTSC signal only). Normally select OFF. [OFF]

COLOR TEMP/BAL. menu

Select the color temperature from among D65, D93 and USER. USER is set to D65 as the factory setting. You can adjust or change the color temperature in USER mode (a measuring instrument is required). [D65]

SUB CONTROL menu

Select an item (CONTRAST, BRIGHT, CHROMA and PHASE controls on the front panel) to finely adjust on the SUB CONTROL screen (⑮).

CAPTION VISION menu

This menu is provided only for PVM-14M4U/14M2U/20M4U/20M2U.
The monitor can display the signal with Caption Vision. To display it, select the caption type in this [OFF].

Using On-Screen Menus

[1]NTSC SETUP LEVEL menu
Select the NTSC setup level from two modes.

The 7.5 setup level is mainly used in North America.
The 0 setup level is mainly used in Europe.

For PVM-14M4U/14M2U/20M4U/20M2U

[7.5] [0]

[2]ACC menu

Set ACC (Auto Color Control) circuit on or off. When the fine adjustment is necessary, select OFF on the ACC menu.

Normally select ON.

[3]LANGUAGE menu

You can select the menu language from among five languages (English, German, French, Italian, Spanish).
[ENGLISH]

[4]LANDING screen

This menu is provided only for PVM-20M4U/20M4E. If the color is not uniform even after you press the DEGAUSS button, you can adjust the landing so as to obtain color uniformity on this screen.

The following two methods are available to adjust the landing.

When the signals of the horizontal lines are input and displayed:

Press the $\downarrow/-$ or $\uparrow/+$ button until the lines are displayed on the screen as horizontally as possible.

When the signals of the white color are input and displayed:

Press the $\downarrow/-$ or $\uparrow/+$ button until the white color on the screen become as uniform as possible.

To reset the setting to standard (00), press the RESET button.

Connections

How to Connect the AC Power Cord

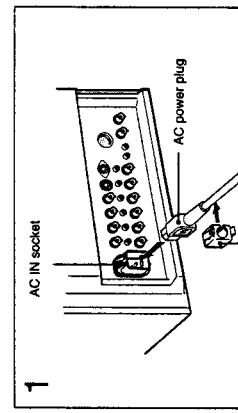
To remove the AC power cord
Pull out the AC plug holder while pressing the lock levers.

How to Connect a Cable to a BNC Connector

Connect a coaxial cable with the BNC plugs to the BNC connectors on the rear panel as illustrated below.



To connect an AC power cord securely with an AC plug holder



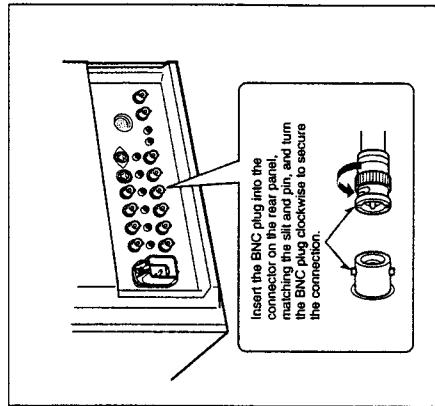
AC power plug
AC IN socket
AC power cord
AC plug holder
AC IN socket
AC plug holder (supplied)
Slide the AC plug holder over the cord until it locks.

How to Remove the AC power cord

To remove the AC power cord
Pull out the AC plug holder while pressing the lock levers.

How to Connect a Cable to a BNC Connector

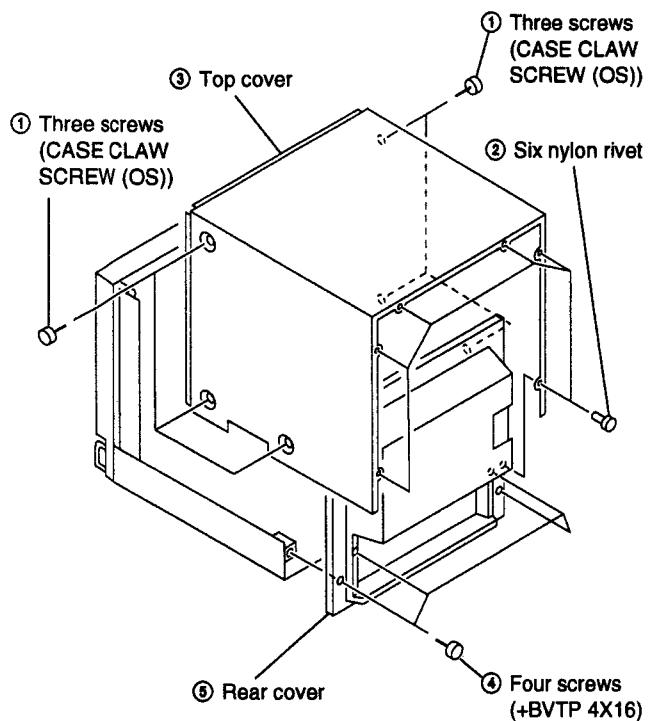
Connect a coaxial cable with the BNC plugs to the BNC connectors on the rear panel as illustrated below.



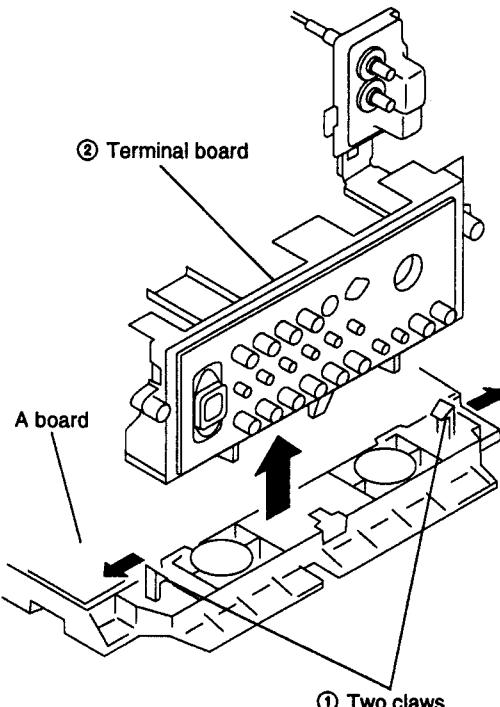
SECTION 2

DISASSEMBLY

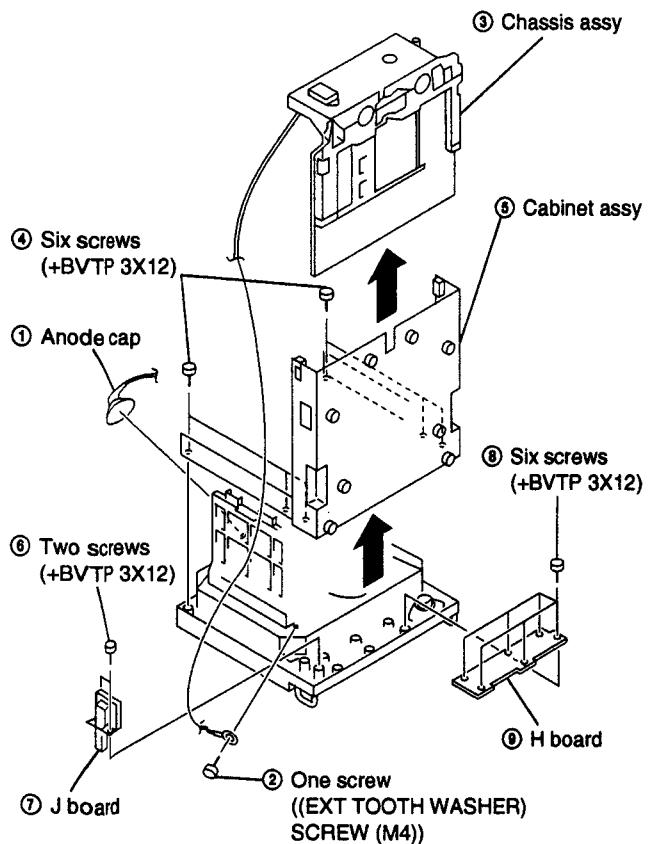
2-1. TOP COVER AND REAR COVER REMOVAL



2-2. TERMINAL BOARD REMOVAL

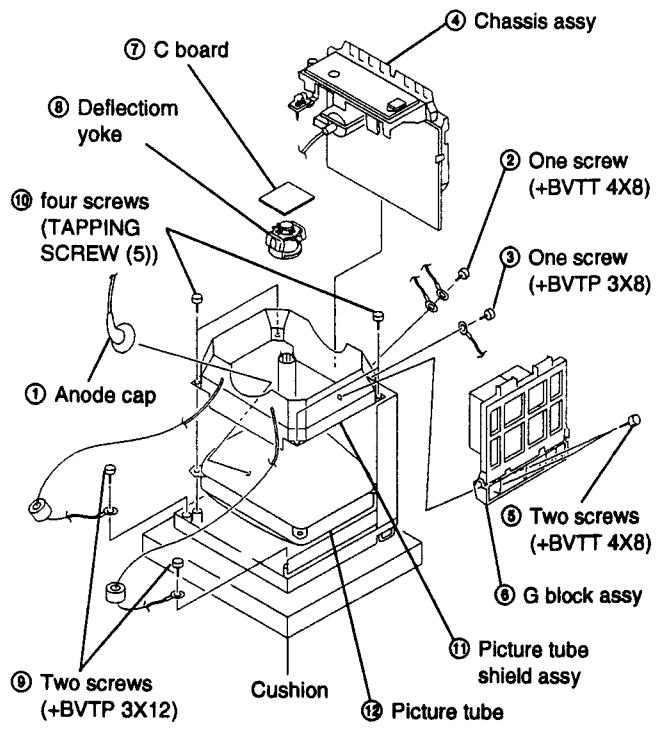


2-3. J AND H BOARDS REMOVAL

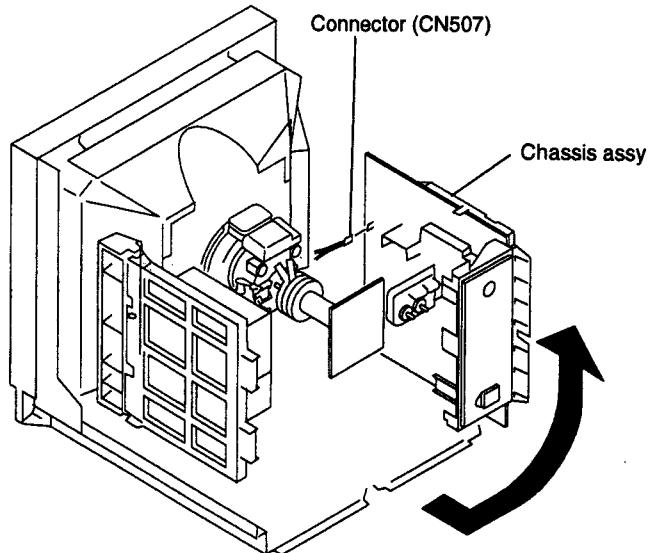


2-4. PICTURE TUBE REMOVAL

When exchange the Picture tube of PVM-14M4 series and if the magnet had stuck on the neck of the Picture tube, peel it.

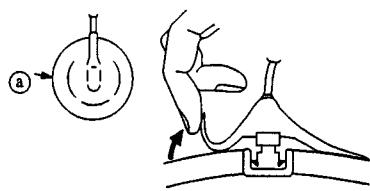


2-5. SERVICE POSITION

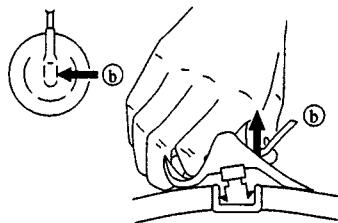


• REMOVAL OF ANODE-CAP

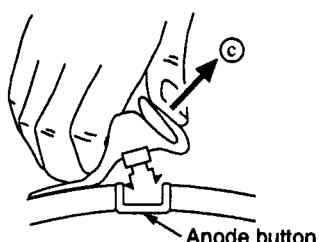
NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.



• REMOVING PROCEDURES



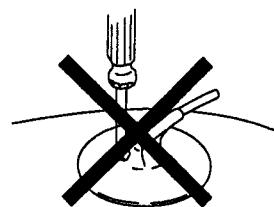
- ① Turn up one side of the rubber cap in the direction indicated by the arrow ④.



- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑨.
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⑩.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3 SET-UP ADJUSTMENTS

3-1. PREPARATIONS (1)

Service Mode

This set is provided with a switch for service on the front panel that can be used to make various adjustments. The operation method of this switch is explained in detail below.

1. Entering the service mode

Simultaneously press the [ENTER] key and the [DEGAUSS] key shown on the display of the menu.

2. Service mode display

(1)	(5)	(4)	(3)	(6)
(2)				

Range of Service Mode Display

- (1) The service items are largely classified into 16 types displayed by titles.
- (2) The names of the service items or READ/WRITE guidance, etc., are displayed. The names are displayed to the left and the guidance to the right.
- (3) This is the serial number for each of the service items. 1-120.
- (4) This is the adjustment data for the service items that are now stored in the RAM. Adjustments can be made by changing these values, but as long as nothing is written to the ROM the adjustment values will be erased by turning off the power or by reading, so please be careful.
- (5) When the adjustment data that is now displayed is identical with the data in the ROM, the cursor (►) is displayed.
- (6) The present status is displayed.
[*]: Writing to the ROM. Make sure not to turn off the power while this display is on.
[?]: ROM reading error. In this case, an image is output with the standard adjustment data that the microcomputer itself possesses.
[_]: Problem in the I2C bus.

3. Finishing the service mode

Simultaneously press the [ENTER] key and the [DEGAUSS] key shown on the display of the menu.

4. Easy ON/OFF of the service mode

If once entering the service mode after having turned on the power, easy ON/OFF is possible by once more pressing the A, B or C switch on the front panel (the LED lights) as long as the power is not turned off or as long as the service mode is not finished.

5. Change of position of the service mode display

If the switch is continuously pressed when turning on in the above easy mode, the display position moves in the V direction. This method is used when the display is outside of the effective screen area.

6. Change of service items

The items are returned with the [MENU] key and forwarded with the [ENTER] key. When a key is continuously pressed, the operation will be repeated.

7. Change of service data

The service data is made larger with the [\uparrow] key and smaller with the [\downarrow] key. When continuously pressing the keys, the operation will be repeated.

8. Reading of service data

When reading data from the ROM to the RAM, press the [B / O] key once and check that the READ display is shown in the guidance, and then press the [B/O] key once again. The adjustment data that is written will return to its previous state, so please be careful.

9. Writing of service data

When writing data from the RAM to the ROM, press the [DEGAUSS] key once and check that the WRITE display shown in the guidance, and then press the [DEGAUSS] key once again. Not only the displayed data will be written, but all data, so please be careful.

10. Carrying out FACTORY RESETTING

In case the adjustment data has been destroyed for some reason, and you keep pressing the [B/O] key at the beginning of the above reading, the READ guidance will change to FACTORY RESET guidance in approximately 3 seconds so that the factory resetting can be carried out. By once again pressing the [B/O] key after this, resetting will be carried out ([*] will be displayed as status) and factory resetting will be executed. However, in case the data available at the time of shipment from the factory has been destroyed, or if the ROM has been replaced, etc., or if factory setting mentioned later on has been carried out, factory resetting is executed.

11. Carrying out FACTORY SETTING

Make sure to make possible the above factory resetting by making a copy of the adjustment data when replacing the ROM. If you keep pressing the [DEGAUSS] key at the beginning of the above writing, the WRITE guidance will change into FACTORY RESET guidance after approximately 3 seconds. By once again pressing the [DEGAUSS] key after this, setting will be carried out ([*] will be displayed as status) and the data will be copied. By carrying out this operation, the selection items of the menu and the adjustment values will be reset to the standard conditions, so please be careful. If this operation is carried out once, it cannot be carried out again, but the FACTORY SET FLAG (No. 120) in the service mode can be set to 1.

SERVICE MAP

Table 3-1 Table map (1)

* Signify (The setting is vary with the destination.)
Refer to the "Table 3-1 Table map (2)."

No.	SERVICE ITEM		MAX	STD	No.	SERVICE ITEM		MAX	STD
1	NOR 50 DEF	H FREQUENCY	255	85	61	C/T1 D??	BIAS <RED>	1023	376
2		VIDEO PHASE	255	139	62		BIAS <GREEN>	1023	512
3		V SIZE	255	139	63		BIAS <BLUE>	1023	396
4	NOR 60 DEF	H FREQUENCY	255	96	64		GAIN <RED>	1023	660
5		VIDEO PHASE	255	115	65		GAIN <GREEN>	1023	620
6		V SIZE	255	137	66		GAIN <BLUE>	1023	602
7	NOR DEF	V CENTER	255	103	67		B/O <RED>	255	115
8		H SIZE	255	108	68		B/O <GREEN>	255	115
9		PIN PHASE	255	128	69	C/T2 D??	3200K SW	1	0
10		PIN AMP	255	128	70		BIAS <RED>	1023	256
11		LOWER PIN AMP	255	128	71		BIAS <GREEN>	1023	512
12		UPPER PIN AMP	255	128	72		BIAS <BLUE>	1023	512
13		SEXY	255	128	73		GAIN <RED>	1023	602
14		V LINEARITY	255	120	74		GAIN <GREEN>	1023	700
15		V BOW	63	32	75		GAIN <BLUE>	1023	672
16		LOWER BOW	63	32	76		B/O <RED>	255	95
17		V ANGLE	63	32	77		B/O <GREEN>	255	108
18	U/S DEF	V SIZE <50>	255	100	78	W/B	SUB CON <4 :3,NORMAL>	255	178
19		V SIZE <60>	255	100	79		SUB CON <4 :3,H/V DELAY>	255	97
20		H SIZE	255	118	80		SUB CON <16 :9,NORMAL>	255	150
21		PIN PHASE	255	128	81		SUB CON <16 :9,H/V DELAY>	255	78
22		PIN AMP	255	100	82		SUB BRIGHT	255	69
23	16 : 9 NOR DEF	V SIZE <50>	255	72	83		USER B/O <RED>	255	115
24		V SIZE <60>	255	60	84		USER B/O <GREEN>	255	115
25		PIN PHASE	255	135	85	OTHER	LANDING	255	64
26		PIN AMP	255	90	86		V HOLD	255	128
27	16 : 9 U/S DEF	V SIZE <50>	255	61	87		H BLANKING	255	73
28		V SIZE <60>	255	39	88		V BLANKING <50>	255	82
29		PIN PHASE	255	135	89		16 : 9 BLANKING START <50>	255	32
30		PIN AMP	255	65	90		16 : 9 BLANKING END <50>	255	176
31	COMPONENT	SUB PHASE	255	130	91		V BLANKING <60>	255	161
32		SUB CHROMA <NORMAL>	255	182	92		16 : 9 BLANKING START <50>	255	42
33		SUB CHROMA <SMPTE>	255	170	93		16 : 9 BLANKING END <50>	255	226
34		R-Y LEVEL	255	163	94		H DELAY	255	142
35	NTSC	BU RST GATE PULSE WIDTH	255	52	95		V DELAY	255	104
36		CRYSTAL	255	59	96		HP POSITION	255	145
37		PHASE <NORMAL>	255	80	97		HP WIDTH <NORMAL>	255	148
38		PHASE <ACC OFF>	255	96	98		HP WIDTH <H/V DELAY>	255	62
39		B-Y PHASE	255	162	99	SYSTEM	SDI AUDIO	7	5
40		CHROMA <NORMAL>	255	98	100		358 TRAP FILTER	1	0
41		CHROMA <ACC OFF>	255	27	101		ACC	1	0
42		R-Y LEVEL	255	98	102		CAPTION VISION	7	0
43	NTSC 443	CRYSTAL	255	82	103		COMPONENT LEVEL	3	*
44		PHASE <NORMAL>	255	62	104		NTSC SETUP LEVEL	1	*
45		PHASE <ACC OFF>	255	64	105		CHROMA SET UP	1	0
46		B-Y PHASE	255	181	106		COLOR SYSTEM DISPLAY	3	0
47		CHROMA <NORMAL>	255	104	107		COLOR TEMPERATURE	3	0
48		CHROMA <ACC OFF>	255	36	108		USER PRESET	1	0
49		R-Y LEVEL	255	100	109		LANGUAGE	7	0
50	PAL	PHASE <NORMAL>	255	110	110		RGB SYNC	1	0
51		PHASE <ACC OFF>	255	105	111		OPTION BOARD	7	0
52		B-Y PHASE	255	122	112		AGING MODE	1	0
53		CHROMA <NORMAL>	255	109	113		PAL-M	1	0
54		CHROMA <ACC OFF>	255	41	114		MODEL	31	*
55		R-Y LEVEL	255	121	115		COLOR TEMP DISP 1	127	*
56	SECAM	CHROMA	255	93	116		COLOR TEMP DISP 2	127	*
57		R-Y LEVEL	255	181	117		REMOTE ADDRESS	63	0
58		COLOR BALANCE <R-Y>	255	118	118		RESERVED 1	1	0
59		COLOR BALANCE <B-Y>	225	135	119		RESERVED 2	2	0
60	C/T1 D??	3200K SW	1	0	120		FACTORY SET FLAG	1	0

Table 3-1 Table map (2)

Model Name	Component level	NTSC Set-up level	Model	Color temp disp 1	Color temp disp 2
PVM-20M4U	1	1	0	65	93
PVM-20M2U	1	1	1	65	93
PVM-20M4J	2	0	2	93	65
PVM-20M4E	2	0	3	65	93
PVM-20M2E	2	0	4	65	93
PVM-14M4U	1	1	5	65	93
PVM-14M2U	1	1	6	65	93
PVM-14M4J	2	0	7	93	65
PVM-14M1J	2	0	8	93	65
PVM-14M4E	2	0	9	65	93
PVM-14M2E	2	0	10	65	93
PVM-20M4A	2	0	11	65	93
PVM-14M4A	2	0	12	65	93
PVM-14M2A	2	0	13	65	93
PVM-14M4B	1	1	14	65	93
BVM-14M4DJ	2	0	15	93	65
BVM-14M4DE	2	0	16	65	93
PVM-20M4T	2	0	17	93	65
PVM-14M4T	1	0	18	93	65

3-2. Preparation (2). Initialization

- * Supply composite video or component signals as shown in Table 3-2.

Table 3-2

Signal		Details of signal	Standard level P-W
Composite video	358NT 443NT	100% white	0.714V
		75% white	0.536V
	PALM PAL SECAM	100% white	0.7V
		75% white	0.525V
	BETA0	100% white Y	0.7V
		75% white Y	0.525V
		75%color B-Y, R-Y (P-P for this item only)	0.7V
Component	SMPTE	100% white Y	0.7V
		75% white Y	0.525V
		75%color B-Y, R-Y (P-P for this item only)	0.525V
	Voice/sound	-5dBs	0.436Vrms

* Refer to Table 3-3 for groups of models.

Table 3-3

Group of models	Models		
1	PVM-14M4U	PVM-14M4J	PVM-14M4E
	PVM-14M4A		
2	PVM-14M2U	PVM-14M2E	PVM-14M2A
3	PVM-14M1J		
4	PVM-20M4U	PVM-20M4J	PVM-20M4E
	PVM-20M4A		
5	PVM-20M2U	PVM-20M2E	

* In this chapter, indicates the control items in the service mode.

Example: **[60 H-FREQ]**

* Before turning off the power after adjustment in the service mode, write the adjustment data. When the power is turned off before writing, adjusted data will all be lost.

3-3. Writing model data

1. Write model data on respective models in the service mode at the location of No.114 MODEL in accordance with Table 3-4.

Table 3-4

Model	Model data
PVM-20M4U	0
PVM-20M2U	1
PVM-20M4J	2
PVM-20M4E	3
PVM-20M2E	4
PVM-14M4U	5
PVM-14M2U	6
PVM-14M4J	7
PVM-14M1J	8
PVM-14M4E	9
PVM-14M2E	10
PVM-20M4A	11
PVM-14M4A	12
PVM-14M2A	13

2. Write the following data in the service mode at the location of No.115 COLOR TEMP DISP 1.
COLOR TEMP DISP 1
U/C, AEP 65
J 23
3. Write the following data in the service mode at the location of No.116 COLOR TEMP DISP 2.
COLOR TEMP DISP 2
U/C, AEP 93
J 65

* Standard inspection state

Unless otherwise specified in this manual, make adjustment under the following conditions:

APERTURE	MIN	(Turn FLAT fully counterclockwise.)
BRIGHT	50%	(Center click)
CHROMA	50%	(Center click)
PHASE	50%	(Center click)
CONTRAST	80%	(Center click)
VOLUME	50%	

3-4. Picture output

1. AC input voltage setting

1. Input VIDEO signals and AUDIO signals to respective terminals on the connector panel.
2. Set the sliduck AC voltage as shown in Table 3-5.

Table 3-5

Group of models	Voltage
PVM-14M4J(J) PVM-14M1J(J)	AC 100±3V (Distortion factor:3% max.)
PVM-14M4U(U/C) PVM-20M2U(U/C)	AC 120±3V (Same as above)
PVM-14M4E(AEP) PVM-14M2A(AUS) PVM-20M4E(AEP) PVM-20M4A(AUS)	AC 220±3V (Same as above)
PVM-20M4J(J) PVM-14M2U(U/C) PVM-14M4A(AUS) PVM-20M2E(AEP)	

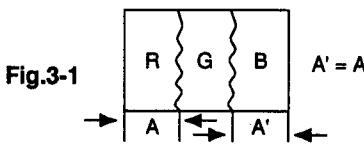


Fig.3-1



Fig.3-2

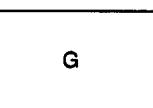


Fig.3-3



Fig.3-4



Fig.3-5

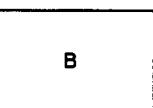


Fig.3-6

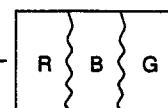


Fig.3-7



Fig.3-8

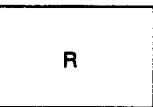


Fig.3-9



Fig.3-10

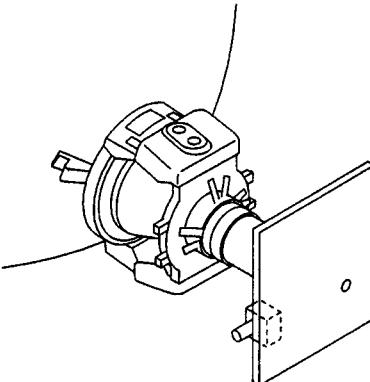


Fig.3-11

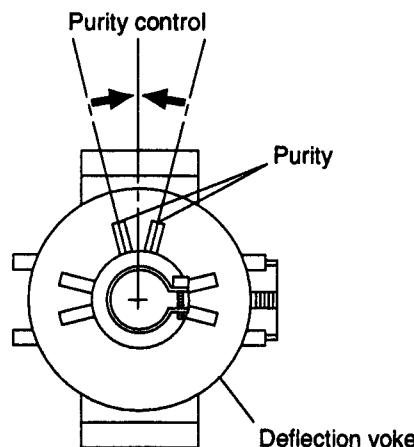


Fig.3-12

Note : Attach NTC magnets for 20M4 to the locations shown in Fig.3-13.

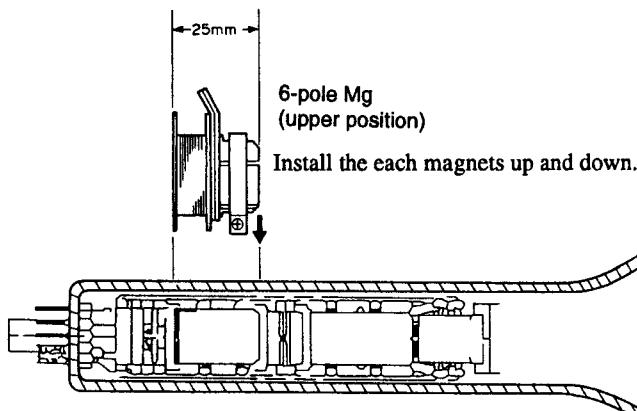


Fig. 3-13

If the A and B knobs are not symmetrical ($I \neq I'$), the focus may deteriorate, beam striking or other adverse effects may occur.

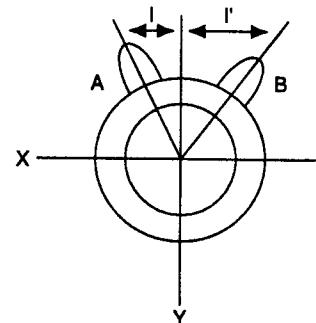


Fig. 3-15 Bad example

3-6. Convergence adjustment (1)

1. Input a dot pattern signal.
CONT ... Conspicuous position
BRT ... MIN
2. Align the horizontal R, G, and B dots at the center of the screen with the H-START VR.
* When H-CENT is changed after H-STAT adjustment, readjust H-STAT. (H-STAT will change by means of H-CENT VR.)
3. Align the vertical location of R, G, and B in the center of the screen with the V-STAT Mg. (Fig.3-14, 3-15)
* After V-STAT adjustment, paint-lock the knob.

V-STAT Mg knob

While keeping the angles A and B equal ($I = I'$), align the vertical convergence.

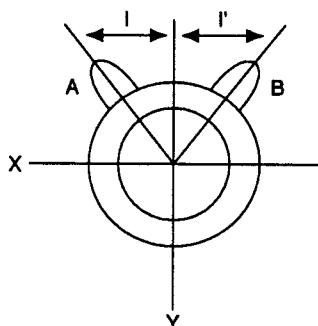
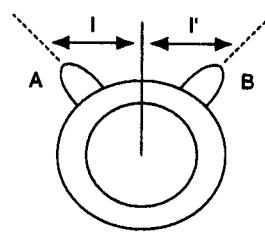


Fig. 3-14 Good example

4. For HMC, use the BMC Mg to adjust the R and B dots so that they will be symmetrical horizontally with respect to the G dot.

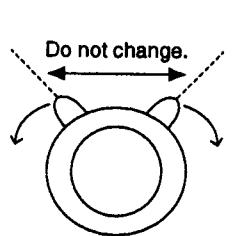


6-pole magnet
Change the opening degree of the BMC Mg to control the HMC.

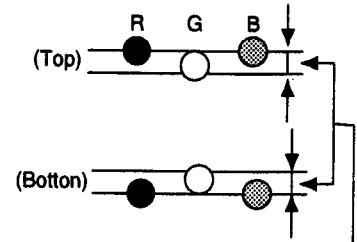
Control the BMC Mg so that $A=A'$. Maintain $I=I'$ when moving the Mg.

Fig. 3-16

5. For VMC, use the MBC Mg to adjust the R and B dots so that they will be symmetrical vertically with respect to the G dot.



6-pole Mg
For VMC control, turn knob to the right or left without changing the opening degree of the BMC Mg.



Make adjustment so that the gap will be the same at the top and bottom.

Fig. 3-17

6. Repeat adjustments 2. to 5.

- * The above adjustment may affect the landing, so after adjustment, check the landing again.

7. Paint-lock the knobs after adjustment.

3-7. Deflection yoke neck rotation adjustment

- If there is nonconvergence on both sides of the X or Y axis of the screen, turn the neck of the deflection yoke in the direction of the arrow to hold the nonconvergence for the entire CRT screen within the tolerance.

* Applicable only to groups of models 1, 2, 3, and 5.

(1) Reverse cross misconvergence pattern

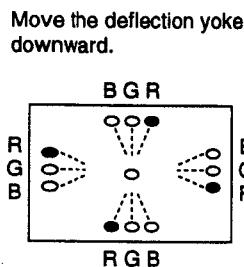


Fig. 3-18

(2) Regular cross misconvergence pattern

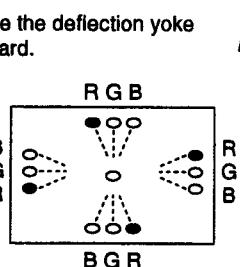


Fig. 3-19

(3) Pattern of left-sided deflection yoke

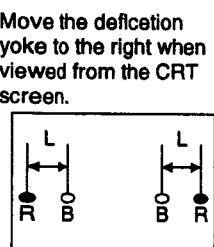


Fig. 3-20

2 zone

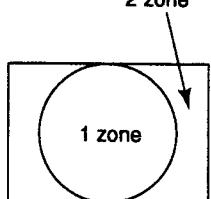


Fig. 3-23

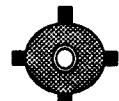
- Turn the neck of the deflection yoke to align the V pin vertically.

* Applicable only to group of models 4.

- Insert the wedge between the deflection yoke and CRT funnel to lock the deflection yoke. (Fig.3-24)



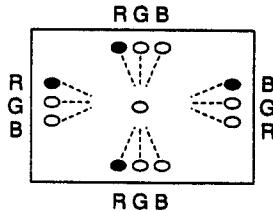
Groups of models
1,2,3, and 5 have been
treated.



Group of models 4 have
been treated.

Fig. 3-24

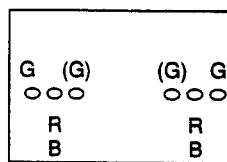
- The following patterns cannot be corrected by turning the neck. (Figs.3-25, 3-26, and 3-27)



* Gun rotation

The X-axis and Y-axis
beams are distorted on
both sides.

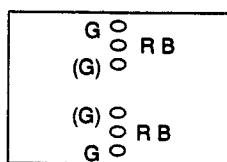
Fig. 3-25



* HCR Large(Small)

The horizontal portion of the
G raster is wider(narrower)
than that of the RB raster on
both sides of the screen.

Fig. 3-26

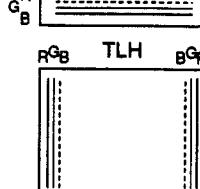
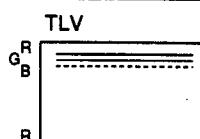
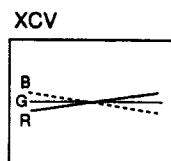
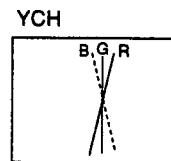


* VCR Large(Small)

The vertical portion of the
G raster is wider(narrower)
than that of the RB raster on
both sides of the screen.

Fig. 3-27

3-8. Convergence adjustment (2)



R^GB TLH B^GR

Fig. 3-28 Convergence compensation VR,coil, and
compensator

Note : When adjustment is insufficient, use permalloy for perfect adjustment.

1. Group of models 4 (See Table 3-3.)

1. Input a cross-hatch signal.
2. Make adjustment with the TLV, YCH, YBH VR, and XCV coils of the deflection yoke to minimize nonconvergence.
3. When the nonconvergence of the TILT component is included in the horizontal convergence, make adjustment with the TLH compensator. (Fig.3-28)

2. Groups of models 1, 2, and 3 (See Table 3-3.)

1. Input a cross-hatch signal.
2. Make adjustment with the TLV, YCH VR, and XCV coils of the deflection yoke to minimize nonconvergence.
3. When the nonconvergence of the TILT component is included in the horizontal convergence, insert the TLH compensator into the deflection yoke for adjustment. (Fig.3-28)

3. Group of models 5 (See Table 3-3.)

1. Input a cross-hatch signal.
2. Make adjustment with the XCV coil of the deflection yoke to minimize nonconvergence.
3. When the nonconvergence of the TILT component is included in the vertical convergence, insert the TLV compensator into the deflection yoke for adjustment. (Fig.3-28)

3-9. G2 adjustment

1. Input a 525 monoscope signal.
2. Connect the probe of the oscilloscope to TP403 on the A board.
3. Measure the lowest reference pulse of the three.
4. Make adjustment with SCREEN VR so that the left end of the waveform will be $1.35 \text{ V} \pm 0.05 \text{ V}$.

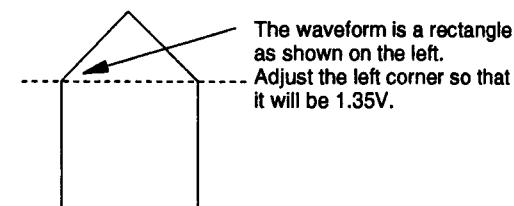
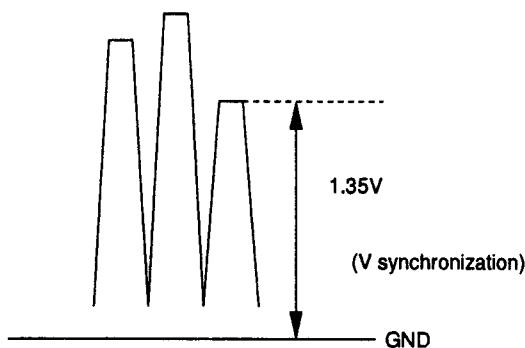


Fig. 3-29

3-10. White balance adjustment

1. Input a 525 monoscope signal. (Input from LINE A or B with no burst.)
2. Set as follows:
CONT: 0%
BRT: 50%
3. Adjust **SUB-BRIGHT** in the service mode so that the 20-tone gray scale will be as follows:
0 and 5 IRE → Cut off
10 IRE → Slight glow
4. Input 525 all-white (COMPOSITE signal without burst).
5. Set CONT VR to 80%.
6. Adjust the all-white luminance so that the screen luminance will be 3 NIT.
7. Press MENU and select COL TEMP/BAL.
8. Select 6500K.

Set **[3200K SW]** to "0" for both 9300K and 6500K.

9. Put the unit into the service mode.
10. Adjust to the standard values with <RED> and <BLUE> of **C/T1 6500K BIAS** or **C/T2 6500K BIAS**.
Set cut-off to 3 NIT.

<GREEN>

Group of models (Table 3-3)	Fix as follows:
2, 3, 5	"400"
1, 4	"512"

11. Switch the all-white signal luminance to 100 IRE.
12. Adjust to the standard values with <RED> and <BLUE> of **C/T1 6500K GAIN** or **C/T2 6500K GAIN**.
<Green>
Set it to "700."
13. Repeat adjustment (10, 11, and 12) until the adjustment is complete, and then write the adjustment data.
14. Press MENU and select COL TEMP/BAL.
15. Select 9300K.
16. Adjust **C/T2 9300K BIAS** **C/T2 9300K GAIN** or **C/T1 9300K BIAS** **C/T1 9300K GAIN** in the same manner as adjustments 1013.

BIAS <GREEN>

Group of models (Table 3-3)	Fix as follows:
2, 3, 5	"400"
1, 4	"512"

GAIN <GREEN>

Fix it at "700."

3-11. Blue-only white balance adjustment

1. Turn ON the blue-only of the user controller SW. (To set blue-only.)
2. Input all-white (COMPOSITE signal without burst).
The all-white signal luminance shall be 100 IRE.
CONT: 80%
BRT: 50%
3. Select COL TEMP/BAL.
4. Select 6500K.
5. Adjust to the standard values with **C/T1 6500K B/O<RED>** and **C/T1 6500K B/O<GREEN>** or **C/T2 6500K B/O<RED>** and **C/T1 6500K B/O<GREEN>**.
6. Select COL TEMP/BAL.
7. Select 9300K.
8. Adjust to the standard values with **C/T2 9300K B/O<RED>** and **C/T2 9300K B/O<GREEN>** or **C/T1 9300K B/O<RED>** and **C/T1 9300K B/O<GREEN>**.
9. Adjust the all-white signal luminance, and check that the white balance is satisfactory when the luminance of the screen is 8NIT.

3-12. SUB BRT adjustment

1. Input a 525 monoscope signal.
2. CONT ... MIN
BRT CENTER (50&)
3. Select **SUB BRIGHT** in the service mode.
4. Adjust **SUB BRIGHT** so that 10 IRE glows slightly and 0 IRE is cut off.

3-13. Focus adjustment

1. PVM-20M4 Series

1. Adjust the H focus (upper side of focus pack) by means of a dot signal.
2. Adjust the V focus (lower side of focus pack) by means of a dot signal.
3. Turn the H focus fully clockwise when viewed from the front by means of a dot signal.
4. Turn the H focus counterclockwise and focus well the dot in the center of the screen. When the dot is well focused, it will be divided into two sections.
5. Turn the H focus VR clockwise (returning direction) so that the dot will be as shown in Fig.3-30. At that time, both ends of the central section of the screen are in the same state.

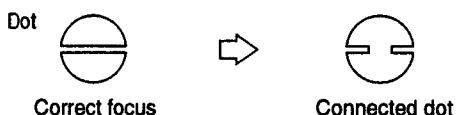


Fig. 3-30

6. Check that the resolution is more than 800 lines by means of a digital monoscope signal.
7. Check that the magenta ring is un conspicuous by means of an all-white signal.

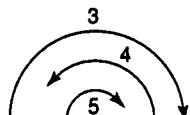


Fig. 3-31 Movement of VR when viewed from the front

2. PVM-14M4 Series

1. Adjust the H focus (upper side of focus pack) by means of a dot signal.
2. Adjust the V focus (lower side of focus pack) by means of a dot signal.
3. Turn the H focus fully clockwise when viewed from the front by means of a dot signal.
4. Turn the H focus counterclockwise and focus the dot in the center of the screen well. The dot signal is divided into two sections at that time.
5. Turn the H focus VR counterclockwise so that the dots will be as shown in Fig.3-32. At that time, both ends of the central section of the screen are in the same state.



Fig. 3-32

6. Check that the resolution is more than 800 lines by means of a digital monoscope signal.
7. Check that the magenta ring is un conspicuous by means of an all-white signal.

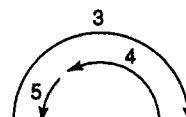


Fig. 3-33 Movement of VR when viewed from the front

3. PVM-14M2 Series (CRT14MG)

Make adjustment so that the dots in the central section (right and left edges) will be undivided, respectively. (When well-focused, the dot is divided into two sections.)

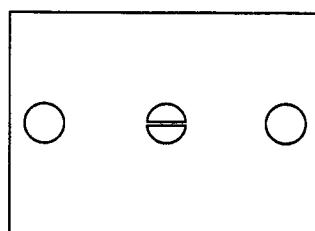
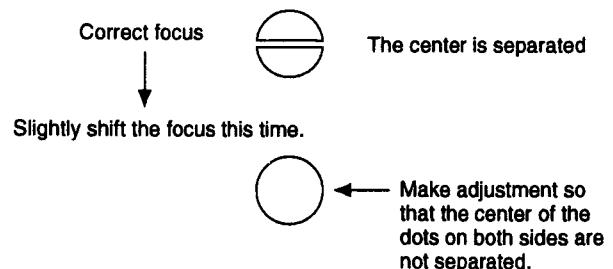


Fig. 3-34

4. PVM-20M2 Series

Focus the character "30" in the center of monoscope well as usualy.

SECTION 4 SAFETY RELATED ADJUSTMENT

When the parts (with a mark on the circuit diagram) shown below are replaced, confirm the matters described in items 4-1 and 4-2 shown below.

- R1536
- R551, R506, R519, R518, R516, R515, R508, R517, R1560, R1537, C549, C512, C513, C523, C592, D501, D533, Q500, Q511, IC500, and IC507

When the following parts are replaced, check the +B voltage:
IC600, IC602, D610, C615, C631, C621, C632, and T603

Confirmation procedure

1. Input 120 VAC.
2. Input a monoscope signal, and minimize CONTRAST and BRIGHT.
3. Check that the voltage of the CN605 ④ pin is 115.7 VDC.

4-1. CONFIRAMATION OF +B MAXIMUM

Standard : Less than 115.7 VDC(CN605 pin ④)

Check Condition Input voltage : 130 VAC

Note : Use NF Power Supply or make sure that distortion factor is 3% or less.

Input signal : Monoscope

Controls : BRT & CONT → Normal

4-2. CONFIRAMATION OF HOLD-DOWN CIRCUIT

Check Condition Input voltage : 130 VAC

Input signal : White & Dot

Controls : BRT & Cont → Max. & Min.

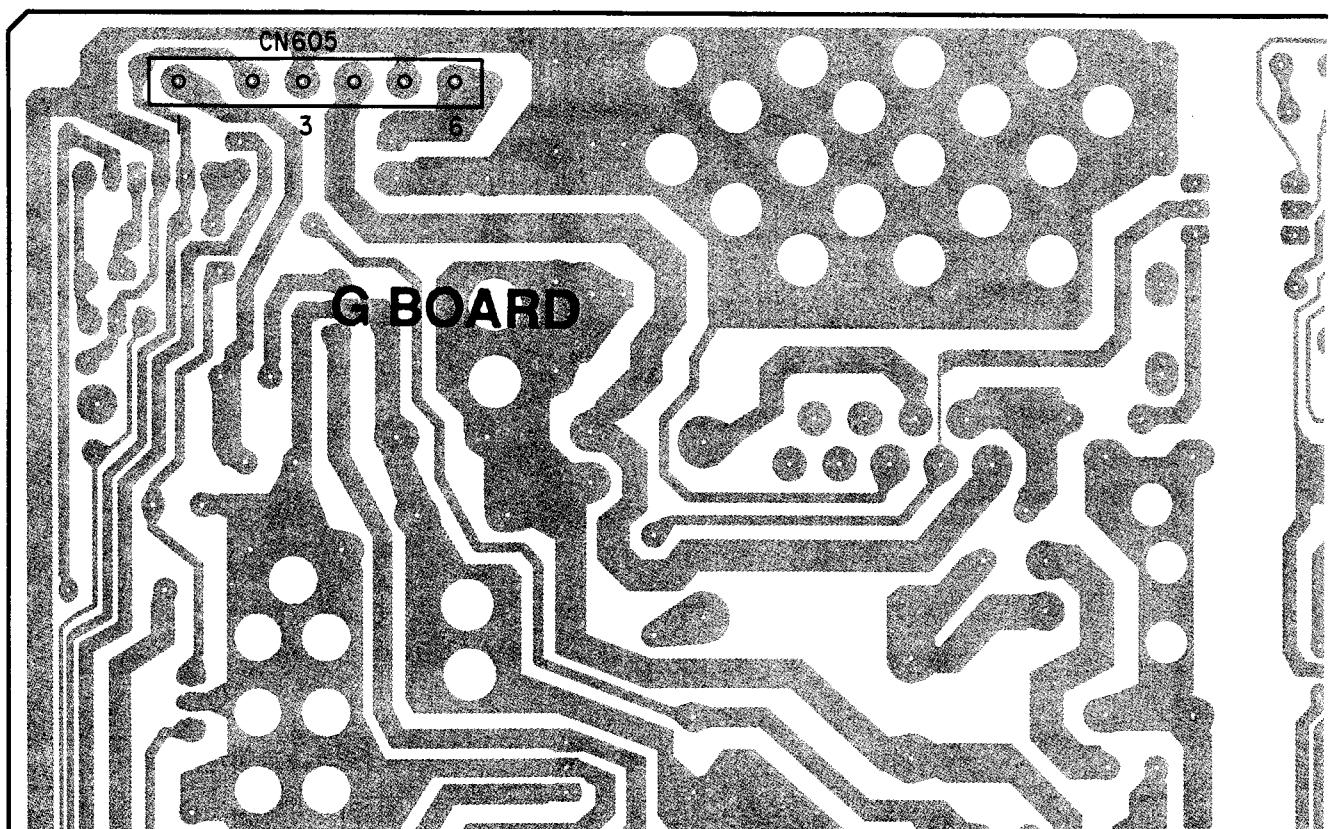
4-2-1.Hold-Down Circuit (+B)

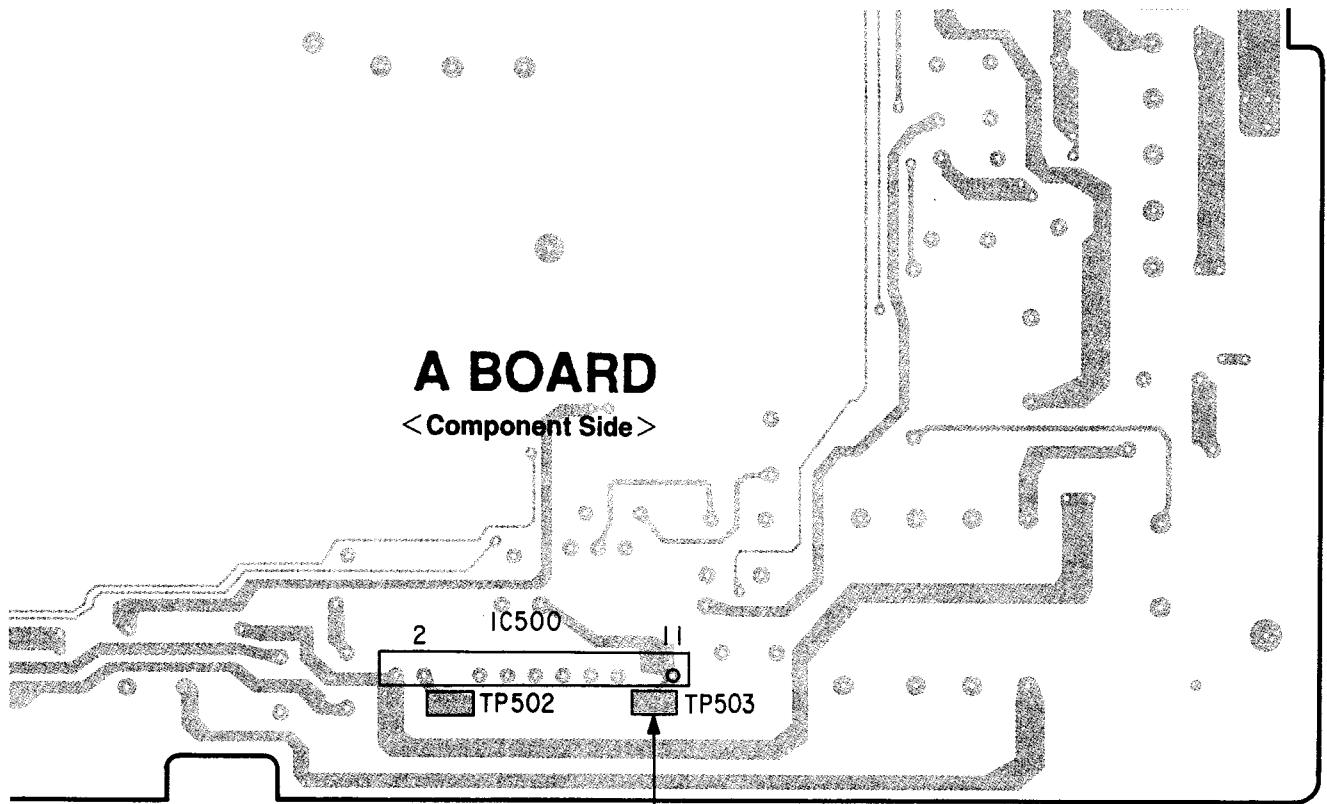
- a) Adjust the beam current to $600 \pm 50 \mu\text{A}$ with the pin ④ of CN605 with the external DC power supply (less than 127.0 VDC) to the point just before the hold-down circuit works.
Input Signal : White
- b) Adjust the beam current to $80 \pm 20 \mu\text{A}$ with the pin ④ of CN605 with the external DC power supply (less than 127.0 VDC) to the point just before the hold-down circuit works.
Input Signal : Dot

4-2-2. Hold-Down Circuit (3rd Wire voltage of FBT)

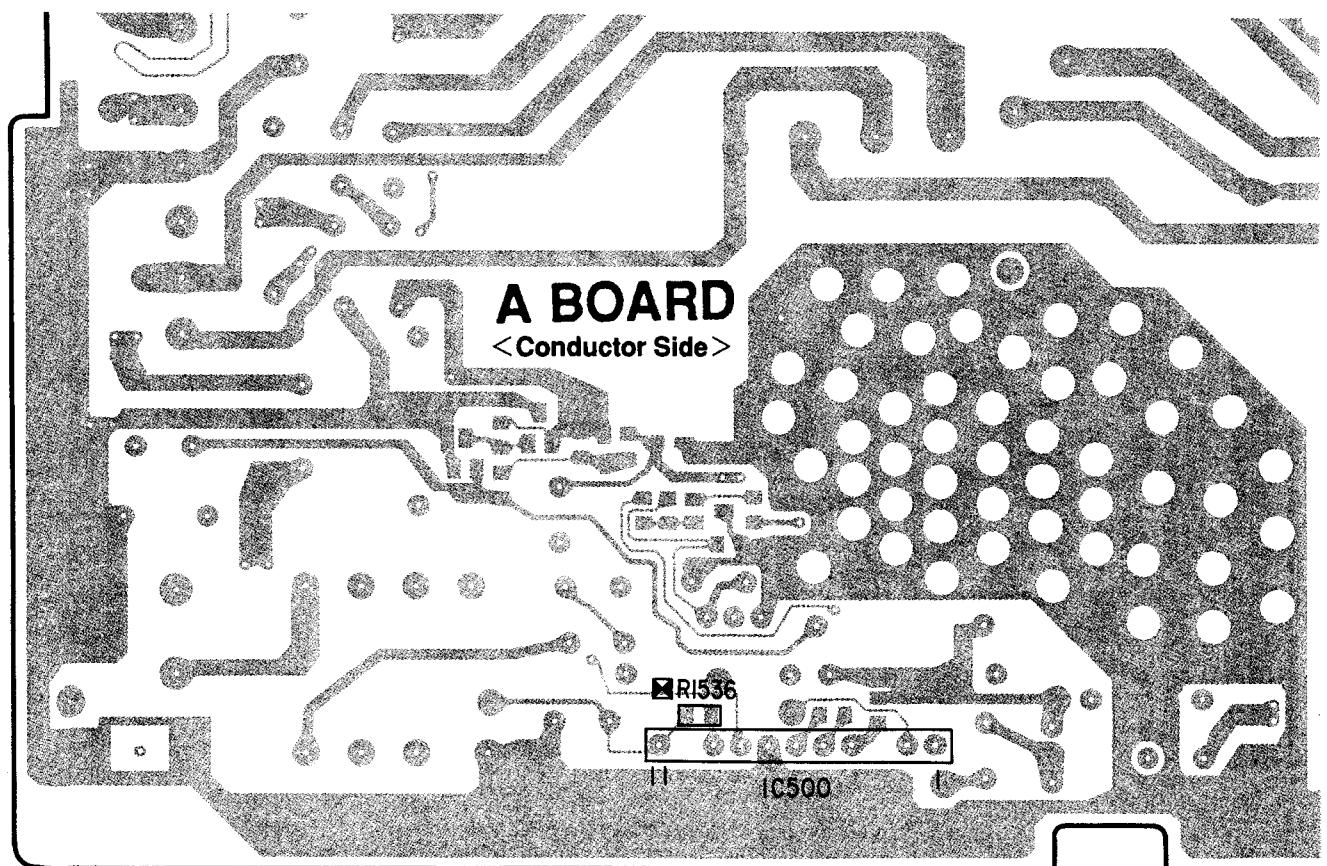
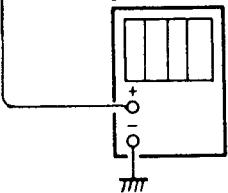
Check item : Check of pin ⑪ of IC500 voltage : more than 110.0VDC

- a) Adjust the beam current to $600 \pm 50 \mu\text{A}$ with the pin ⑪ of IC500 with the external DC power supply (less than 141.0 VDC) to the point just before the hold-down circuit works.
Input Signal : White
- b) Adjust the beam current to $80 \pm 20 \mu\text{A}$ with the pin ⑪ of IC500 with the external DC power supply (less than 141.0 VDC) to the point just before the hold-down circuit works.
Input Signal : Dot



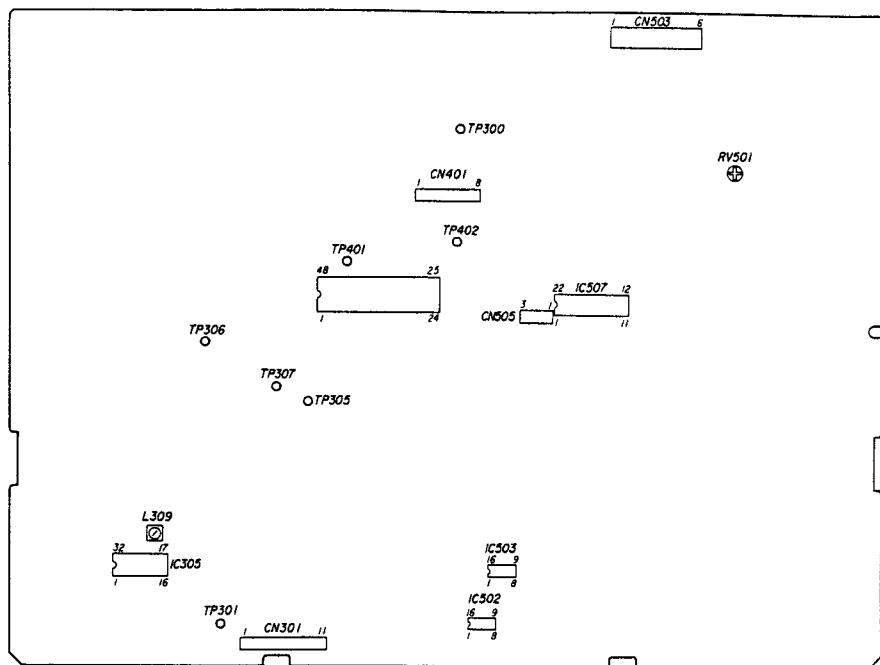


digital multimeter



SECTION 5 CIRCUIT ADJUSTMENTS

5-1. A BOARD ADJUSTMENT



1. PREPARATION/SIGNAL SPECIFICATIONS

1. Signal specifications

- * Supply a composite video or component signals from the CN301 connector. Refer to Table 5-1 to take into consideration the effect on the Q board.
- The level of the signal to supply should equal to values shown in Table 5-1 plus/minus 2% max.

Table 5-1

Signal		Details of signal	Standard level (Pedestal white)	Reduction rate %	Connector supply level (P.W)
Composite video (75% color bar)	358NT 443NT	100% white	0.714V	93%	0.664V
		75% white	0.536V	♦	0.498V
		Burst (Green section) (P-P for this item only)	286mV (632mV)	94% (94%)	269mV (594mV)
	PAL SECAM PAL M	100% white	0.7V	♦	0.651V
		75% white	0.525V	♦	0.488V
		PAL burst (Green section) (P-P for this item only)	300mV (664mV)	94% (94%)	282mV (624mV)
	BETA 0	100% white	0.7V	94.8%	0.664V
		75% white	0.525	♦	0.498V
		75% color B-Y, R-Y (P-P for this item only)	0.7V	♦	0.664V
Component (75% color bar)	SMPTE	100% white	0.7V	♦	0.664V
		75% white	0.525V	♦	0.498V
		75% color B-Y, R-Y (P-P for this item only)	0.525	♦	0.498V

2. Preparation

- * In this chapter, indicates the control items in the service mode.
- Example: **[60 H-FRQ]**

Write the applicable model data at the location of NO.114 MODEL in the service mode.

Group of models 4 ... 0
Group of models 5 ... 1
Group of models 1 ... 5
Group of models 2 ... 6
Group of models 3 ... 8

- * Refer to Table 5-2 for the following groups of models.

Table 5-2

Group of models	Models		
1	PVM-14M4U PVM-14M4A	PVM-14M4J	PVM-14M4E
2	PVM-14M2U	PVM-14M2E	PVM-14M2A
3	PVM-14M1J		
4	PVM-20M4U PVM-20M4A	PVM-20M4J	PVM-20M4E
5	PVM-20M2U	PVM-20M2E	

- * CONT 80% is the center click position of the user controller.

2. ADJUSTMENT OF DEFLECTION SYSTEM

1. Adjustment of horizontal oscillation frequency

1. Input a 525 monoscope signal.
2. CONT ... 80%
- BRT 50%
3. Set the unit in the service mode.

4. Connect the IC507 ① PIN on the A board to GND via the 100μ /16V chemical capacitor. (Use CN505③ PIN for GND.) Or insert the H-FREQ jig into CN505.

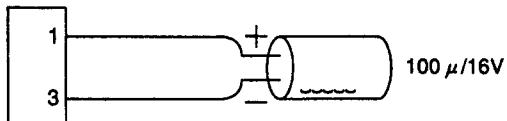


Fig.5-1 H-FREQ jig

5. Adjust **[50 H-FREQ]** so that the slanting lines on the screen will be vertical. (Fig.5-2)
 6. Input a 625 monoscope signal.
 7. Adjust **[50 H-FREQ]** so that the slanting lines on the screen will be vertical. (Fig.5-2)

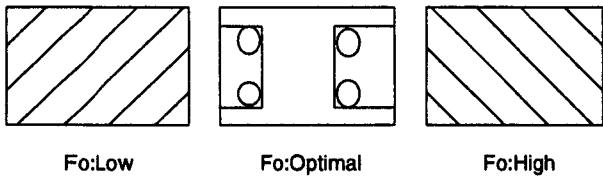


Fig.5-2

2. H BLANKING adjustment

1. Input a 525 monoscope signal.
2. CONT ... 80%
- BRT 50%
3. Set the unit in the service mode.
4. Observe the anode of TP300 or D516 with an oscilloscope, and adjust **[H-BLANKING]** so that the waveform will be as shown in Fig.5-3.

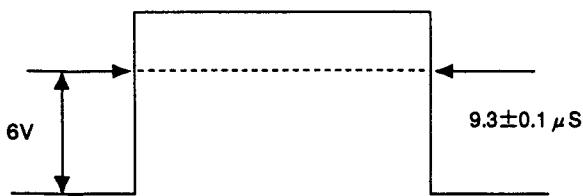


Fig.5-3

3. Picture phase adjustment

1. Input a 525 monoscope signal.
2. Set the unit in the UNDER SCAN mode.
3. CONT ... Min.
- BRT Max.
4. Set the unit in the service mode.
5. Adjust **[U/N H-SIZE]** so that the white frame of the monoscope will be approx. 1 cm to the inside of the effective screen.
6. Turn RV501 (H-CENT) so that $B = B'$.
7. Adjust **[50 VIDEO PHASE]** so that the signal area will be in the center ($A = A'$) of the deflection area. (Fig.5-4)
8. Input a 625 monoscope signal.
9. Adjust **[50 VIDEO PHASE]** in the same manner.

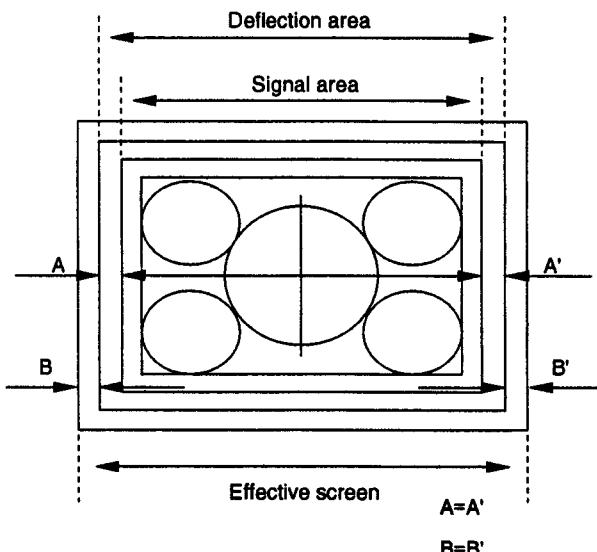


Fig.5-4

4. V BLANKING adjustment

1. Input a 525 monoscope signal.
2. Set the unit in the UNDER SCAN mode.
3. CONT ... Min.
- BRT ... Max.
4. Set the unit in the service mode.
5. Adjust **[V-BLANKING <60>]** so that the white frame in the upper section of the monoscope will be about to be blanked.

Note : Blanking up to the point 1H away from the white frame is permissible, but the adjusting center should be up to the point 0.5H away from the frame.

6. Cancel the UNDER SCAN mode, and set the unit in the normal 16:9 mode.
7. Adjust **[16:9 BLANKING START<60>]** and **[16:9 BLANKING END<60>]** so that the number of frames in the vertical direction in the luminous section of the screen will be 11.74 and the BLK quantity at the top and bottom will be the same.

Note : Make adjustment before 16:9 V-SIZE adjustment.

8. Input a 625 monoscope signal.
9. In the same way as 5. shown above, adjust **V-BLANKING <50>**.
10. Adjust **16:9 BLANKING START<50>** and **16:9 BLANKING END<50>**, in the same was as 6. and 7., so that the number of frames in the vertical direction in the luminous section of the screen will be 11.2 and the BLK quantity at the top and bottom will be the same.

5. Vertical deflection adjustment

1. Input a 525 monoscope signal.
2. CONT ... 80%
- BRT ... 50%
3. Set the unit in the service mode.
4. Roughly adjust **NOR 60 V.SIZE** so that the size will be 12 frames.
Adjust V.LIN with **V.LIN**.
Adjust CENT with **V.CENT**.
VCENT must be reviewed after adjustment of V.LIN.
Adjust **NOR 60 V.SIZE** so that it will equal the standard value.
5. Set the unit in the 16:9 mode by the user controller SW.
6. Make the same adjustment with **16:9 NOR V.SIZE <60>**.
7. Set the unit in the NORMAL SCAN mode.
8. Input a 625 signal.
9. Adjust **NOR 50 V.SIZE** so that the SIZE will equal the standard value.
10. Set the unit in the 16:9 mode.
11. Adjust **16:9 NOR V.SIZE <50>** so that it will equal the standard value.

Table 5-3 NORMAL V. SIZE standard

		525	625
4 : 3		11.75±0.2 frames	11.2±0.2 frames
16 : 9	14"	154mm	←
	20"	217mm	←

6. Horizontal deflection adjustment (Normal scan adjustment)

1. Input a 525 monoscope signal.
2. CONT ... 80%
- BRT 50%
3. Set the unit in the service mode.
4. Rough adjustment of H.SIZE
Roughly adjust **NOR H.SIZE** so that H.SIZE will be 15.75 frames.
5. Adjust the horizontal deflection by means of **NOR PIN AMP**, **NOR PIN PHASE**, **NOR U.PIN AMP**, **SEXY**, **V.BOW**, **V.ANGL**, **NOR H.SIZE**, **L.PIN AMP**, and **L.V.BOW**.
(While correcting a distorted parallelogram and curvature with V.ANGL and BOW, make adjustment so that the horizontal and vertical lines of the screen will be straight.)
6. Set the unit in the 16:9 mode.
7. Make the same adjustment as 5. with **16:9 NOR PIN AMP** and **16:9 NOR PIN PHASE**

Table 5-4 NORMAL H. SIZE standard

	525	625
4 : 3	11.75±0.2 frames	15.0±0.2 frames
16 : 9	11.75±0.2 frames	15.0±0.2 frames

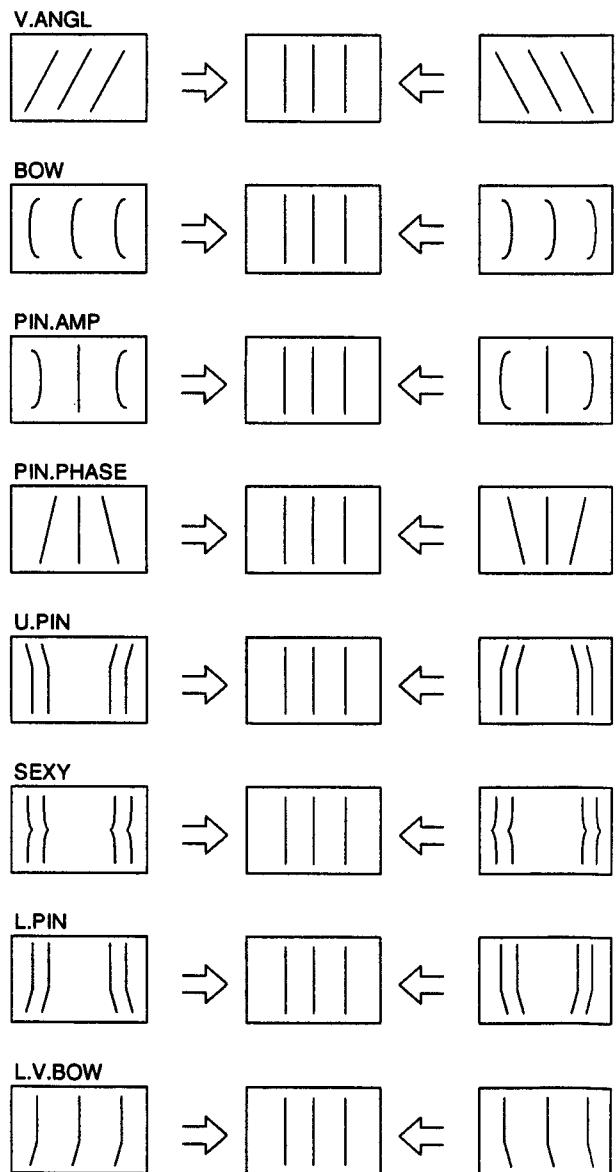


Fig.5-5

7. Horizontal deflection adjustment (UNDER SCAN adjustment)
 1. Input a 525 monoscope signal.
 2. CONT ... 80%
 - BRT 50%
 3. Set the unit in the U/S mode.
 4. Set the unit in the service mode.
 5. Adjust **[U/S V SIZE <60>]** so that UNDER V.SIZE will be within the standard.
 6. Adjust **[U/S H SIZE]** so that UNDER H.SIZE will be within the standard.
 7. Adjust **[U/S PIN AMP]** and **[U/S PIN-PHASE]**. (Adjust tracking according to 5., 6., and 7.)
 8. After adjustment, the white frame of the monoscope shall not be out of the effective screen.
 9. Set the unit in the 16:9 mode.
 10. Make the same adjustment with 5. and 7. by means of **[16:9 U/S V SIZE <60>]**, **[16:9 U/S PIN-AMP]** and **[16:9 U/S PIN-PHASE]**.

Table 5-5

Standard values for groups of models 1, 2, and 3 (14")

	525	625
U/S H-SIZE V-SIZE	252mm 188mm	←
16 : 9 U/S V-SIZE	142mm	←

Table 5-6

Standard values for groups of models 4 and 5 (20")

	525	625
U/S H-SIZE V-SIZE	364mm 272mm	←
16 : 9 U/S V-SIZE	205mm	←

11. Set the unit in the 16:9 mode.
12. Input a monoscope signal.
13. Make the same adjustment with 5. by means of **[U/S V SIZE <50>]**.
14. Set the unit in the 16:9 mode.
15. Make the same adjustment with 5. by means of **[16:9 U/S V SIZE <50>]**.

Note : If there is not time enough for adjustment (5. Vertical deflection adjustment and 6. and 7. Horizontal deflection adjustment), confirm that the respective sections will operate normally and that adjustment is possible, and then input standard adjustment values.

8. H/V-DELAY adjustment

Note : This item applies only to groups of models 1, 2, 4, and 5.

- 8-1. H-DELAY adjustment
 - 1) Input a 525 monoscope signal.
 - 2) CONT ... 80%
 - BRT 50%
 - 3) Set the unit in the H/V DELAY mode.
 - 4) Set the unit in the service mode.
 - 5) Connect the probe of an oscilloscope to IC503 ⑦ PIN. Adjust **[H DELAY]** so that the output waveform will be as shown in Fig.5-6.

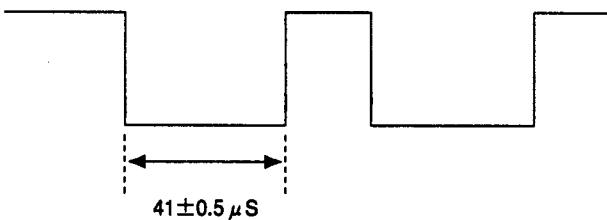


Fig.5-6

8-2. V-DELAY adjustment

- 1) Input a 525 monoscope signal.
- 2) CONT ... 80%
- BRT 50%
- 3) Set the unit in the H/V DELAY mode.
- 4) Set the unit in the service mode.
- 5) Connect the probe of an oscilloscope to IC502 ⑦ PIN. Adjust **[V DELAY]** so that the output waveform will be as shown in Fig.5-7.

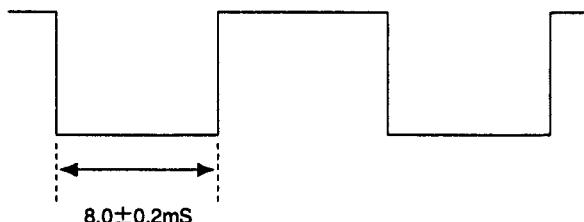


Fig.5-7

8-3. Confirmation of screen

Confirm that the screen is as shown in Fig.5-8.

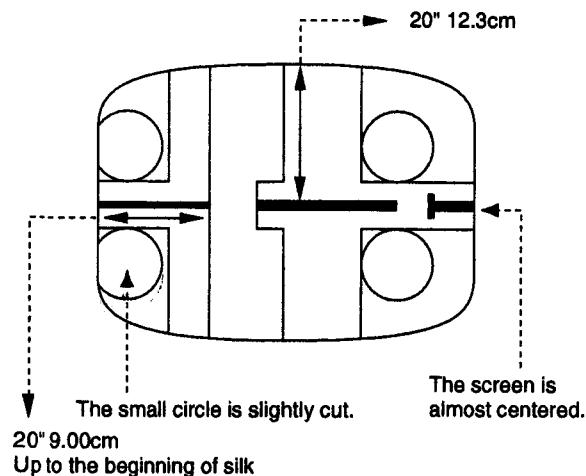


Fig.5-8

9. Writing adjustment results

Write the adjustment results.

Note : Do not turn off the power before writing the adjustment results; otherwise, they will all be lost.

3. Signal system adjustment

1. SUB CON adjustment during NORM and H/V DL

Note : H/V-DL is not applicable to the group of models 3.

Adjustment must be completed before the HUE adjustment of NTSC358/443.PAL.

1. Input a vertical white line signal.

Note : Use a vertical white line signal (without 525 burst; H width of 3μS; 100IRE).

2. CONT ... 80%
BRT 50%
3. Connect the probe of an oscilloscope to CN401 ③ PIN on the A board.
4. Set the unit in the service mode.
5. Temporarily input "69" as an adjustment value for SUB.BRIGHT. Set the values in Table 5-7 as BIAS and GAIN data of C.TEMP1 and C.TEMP2.

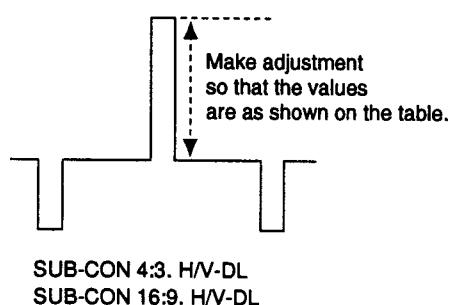
6. Adjust the pedestal or the distance between SYNTIP and WHITE by means of [SUB CON <4:3, NOR>,

[SUB CON <4:3, H/V DELAY>, [SUB CON <16:9, NOR>, and

[SUB CON <16:9, NOR>].

SUB CON <4:3, NOR>

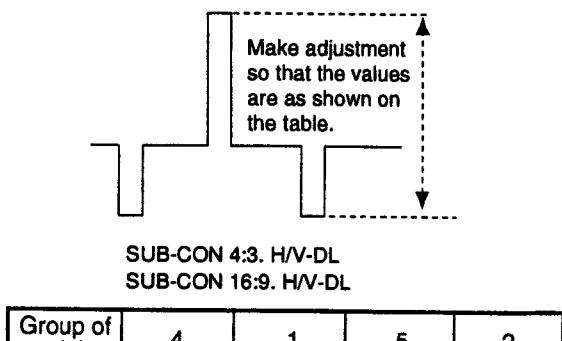
SUB CON <16:9, NOR> (Fig.5-9)



Group of models	4	1	5	2	3
4 : 3	1.39Vp-p	1.16Vp-p	1.37Vp-p	1.47Vp-p	1.47Vp-p
16 : 9	1.22Vp-p	1.04Vp-p	1.19Vp-p	1.32Vp-p	1.32Vp-p

Fig. 5-9

SUB CON <4:3, H/V DELAY>
SUB CON <16:9, H/V DELAY> (Fig.5-10)



Group of models	4	1	5	2
4 : 3	1.39Vp-p	1.16Vp-p	1.37Vp-p	1.47Vp-p
16 : 9	1.22Vp-p	1.04Vp-p	1.19Vp-p	1.32Vp-p

Fig. 5-10

Note : Not applicable to PVM-14M1J

Table 5-7

Group of models	1, 4	2, 3, 5
BIAS GREEN	512	400
GAIN GREEN	700	700

2. SUB PHASE adjustment

Note : Not applicable to the group of models 3.

1. Input a component color bar (R-Y) and EXT SYNC. (BETA 0 level signal)
2. Set the unit in the EXT SYNC mode for component input.
3. Connect the probe of an oscilloscope to IC404 ⑩ PIN or TP402.
4. Set the unit in the service mode.
5. Adjust **SUB PHASE** so that the output waveform will be minimum (15 mVp-p or less). (Fig.5-11)

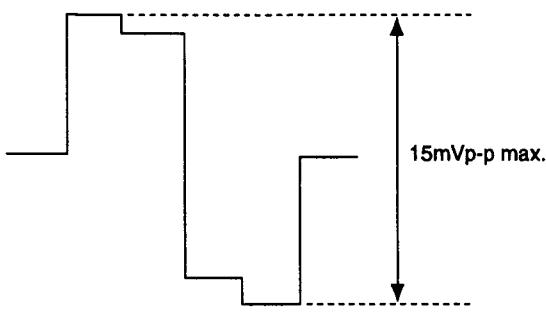


Fig. 5-11

3. SUB PHASE adjustment

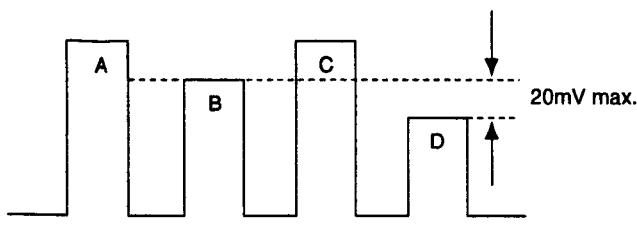
Note : Not applicable to groups of models 1, 2, 4, and 5.

1. Input an NTSC color bar.
2. Connect L309 to GND and TP307 to 5V line (L320 line), respectively.
3. Set the unit in the service mode.
4. Adjust **SUB PHASE** so that the output waveform will be minimum (15 mVp-p or less). (Fig.5-11)

4. SUB CHROMA adjustment

Note : Not applicable to the group of models 3.

1. Input component color bars (R-Y, Y, and B-Y). (BETA 0 level signal)
2. Set COMPONENT LEVEL to BETA 0 via MENU.
3. Connect the probe of an oscilloscope to IC404 ⑩ PIN or TP402.
4. Set the unit in the service mode.
5. Adjust **SUB CHROMA NORMAL** so that the peaks of waveforms will be flush with each other as shown in Fig.5-12.



Make B flush with D

Fig. 5-12

5. SUB COL adjustment

Note : Not applicable to groups of models 1, 2, 4, and 5.

1. Set the unit in the service mode.
2. Input adjustment value 98 to **SUB CHROMA NORMAL**. (Fig.5-12)

6. R-Y LEVEL adjustment

Note : Not applicable to the group of models 3.

1. Input component color bars (R-Y, Y, and B-Y). (BETA 0 level signal)
2. Set COMPONENT LEVEL to BETA 0 via MENU.
3. Connect the probe of an oscilloscope to IC404 ⑩ PIN or TP401.
4. Set the unit in the service mode.
5. Adjust **R-Y LEVEL COMPONENT** so that the peaks of waveforms will be flush with each other as shown in Fig.5-13.

Make adjustment so that B = D as shown above. (20 mV max.) Check that the difference between B and C is 30 mV or less.

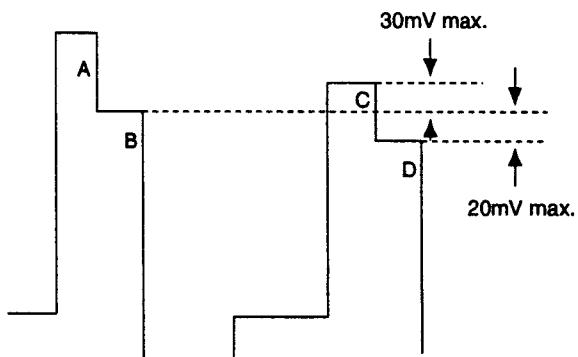
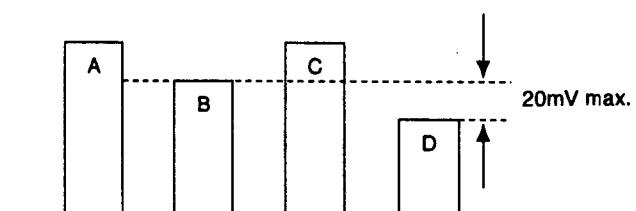


Fig. 5-13

7. SUB CHROMA N10/SMPTE

Note : Not applicable to the group of models 3.

1. Input component color bars (R-Y, Y, and B-Y). (SMPTE level signal)
2. Set COMPONENT LEVEL to N10/SMPTE via MENU.
3. Connect the probe of an oscilloscope to IC404 ⑩ PIN or TP402.
4. Set the unit in the service mode.
5. Adjust **SUB CHROMA SMPTE** so that the levels of B and D will be the same. (Fig.5-14)



Make B flush with D

Fig. 5-14

8. Adjustment of burst gate pulse width

1. Input an NTSC color bar.
2. Connect the probe of an oscilloscope to TP301 (COMP-SYNC) and Q363 (E) or IC305 ① PIN. (Exercise care since IC305 (1) PIN is a high-impedance line.)
3. Set the unit in the service mode.
4. Adjust **BGP WIDTH** so that the output waveforms will be as shown in Fig.5-15.

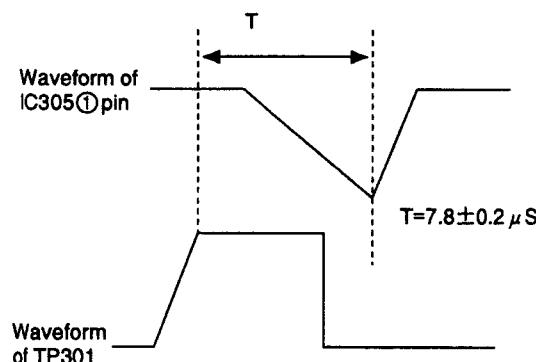


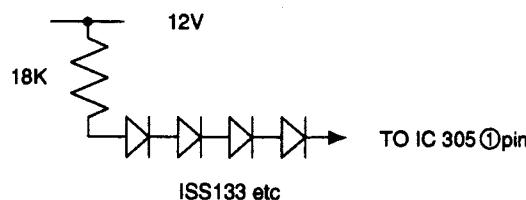
Fig. 5-15

9. VXO adjustment

9-1. X'tal 358

- 1) Input an NTSC color bar.
- 2) Connect a frequency counter to IC305 ② PIN.
- 3) Set the unit in the service mode.
- 4) Connect IC305 ① PIN as shown in Fig.5-16.
- 5) Adjust **NTSC CRYSTAL** so that the counter reading will be within the standard values shown below. (Adjustment may be made at a point at which the color flickering stops.)

X'tal 358 standard value: 3579545 ± 20 Hz



(Arrange 4 Di's as close as possible to ①PIN at the shortest possible distance.)

Fig. 5-16

9-2. X'tal 443

- 1) Input a 443 NTSC color bar.
- 2) Connect a frequency counter to IC305 ② PIN.
- 3) Set the unit in the service mode.
- 4) Connect IC305 ① PIN in the same way as 9.-4) in 9. VXO adjustment.
- 5) Adjust **NTSC 443 CRYSTAL** in the same way as 9.-5) in 9. VXO adjustment.

X'tal 443 standard value: 4433619 ± 20 Hz

10. NTSC - NTSC443 - PAL color demodulation adjustment

Note : 10-1. is not applicable to the group of models 3.

10-1. NT358PHASE (NORMAL)

- 1) Input an NTSC color bar.
- 2) Connect the probe of an oscilloscope to TP306.
- 3) Set the unit in the H/V DELAY mode.
- 4) Set the unit in the service mode.
- 5) Adjust **PHASE NTSC 358 NOR** so that the burst section of the output waveform will be straight. (Fig.5-17)

10-2. NT 358 PHASE (ACC OFF)

- 1) Conduct ACC OFF via MENU.
- 2) Make adjustment in the same way as 10-1. shown above by means of **PHASE NTSC 443 ACC OFF**. (Fig.5-17)

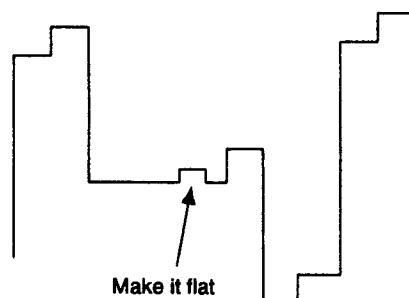


Fig. 5-17

10-3. NT 358 B-Y PHASE

Note : Make adjustment after PHASE adjustment and before CHROMA adjustment.

- 1) Input an NTSC color bar. (Input only the R-Y component. B-Y and Y should be OFF.)
- 2) Connect the probe of an oscilloscope to TP305.
- 3) Set the unit in the service mode.
- 4) Adjust **B-Y PHASE NTSC 358** so that the color components will be straight.

10-4. NT 358 CHROMA (NORMAL)

- 1) Input an NTSC color bar.
- 2) Connect the probe of an oscilloscope to IC404 ③ PIN or TP402.
- 3) Set the unit in the service mode.
- 4) Adjust **CHROMA NTSC 358 NOR** so that the peaks of waveforms will be flush with each other as shown in Fig.5-18.

10-5. NT 358 CHROMA (ACC OFF)

Note : 10-5. is not applicable to the group of models 3.

- 1) Conduct ACC OFF via MENU.
- 2) Adjust **CHROMA NTSC 358 ACC OFF** in the same way as 10-4. shown above. (Fig.5-18)

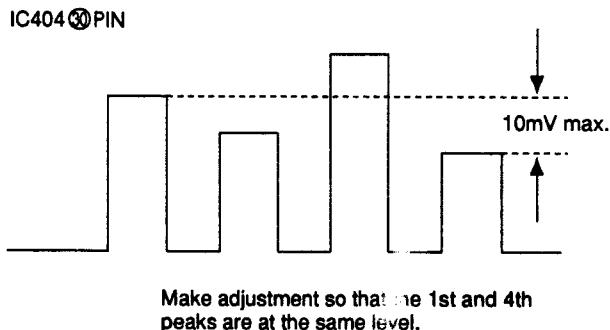


Fig. 5-18

10-7. NTSC 443 PHASE (NORMAL)

Note : 10-7-3). is not applicable to the group of models 3.

- 1) Input an NTSC 433 color bar.
- 2) Connect the probe of an oscilloscope to TP306.
- 3) Set the unit in the H/V DELAY mode.
- 4) Set the unit in the service mode.
- 5) Adjust **PHASE NTSC 443 NOR** so that the burst section of the output waveform will be straight. (Fig.5-20)

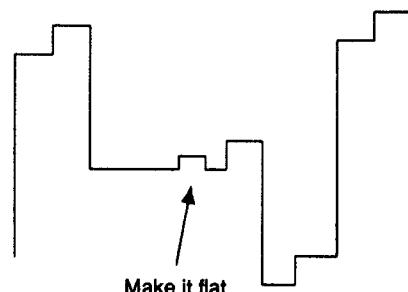
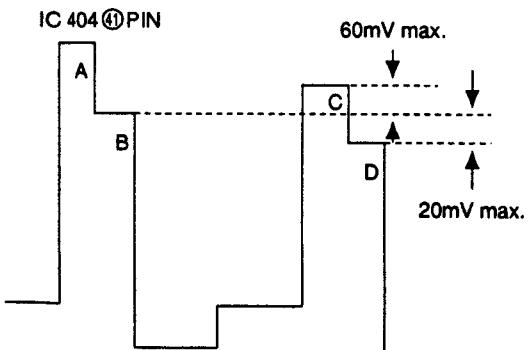


Fig. 5-20

10-6. NTSC 358 R-Y LEVEL

Note : Be sure to set ACC in the ON position before this adjustment.

- 1) Input an NTSC 358 color bar.
- 2) Connect the probe of an oscilloscope to IC 404 ④PIN or TP401.
- 3) Set the unit in the service mode.
- 4) Adjust **R-Y LEVEL NTSC 358** so that the peaks of waveforms will be flush with each other as shown in Fig.5-19.



Make adjustment so that B=D as shown above.(20mV max.)
Check that the difference between B and C is less than 60mV.

Fig. 5-19

10-8. NTSC 443 PHASE (ACC OFF)

Note : 10-8. is not applicable to group of models 3.

- 1) Conduct ACC OFF via MENU.
- 2) Adjust **PHASE NTSC 443 ACC OFF** in the same way as 10-7-5). (Fig.5-21)

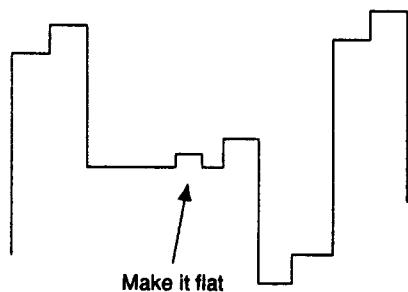


Fig. 5-21

10-9. NTSC 443 B-Y PHASE NTSC 443 CHROMA NOR

Note : Be sure to set ACC in the ON position before this adjustment.

Note : Remove HV.DELAY before this adjustment.

- 1) Input an NTSC 443 color bar.
- 2) Connect the probe of an oscilloscope to TP402.
- 3) Set the unit in the service mode.
- 4) While tracking by means of **B-Y PHASE NTSC 443** and **CHROMA NTSC 443 NOR**, make adjustment so that the peaks of waveforms will be the same. (Fig.5-22)

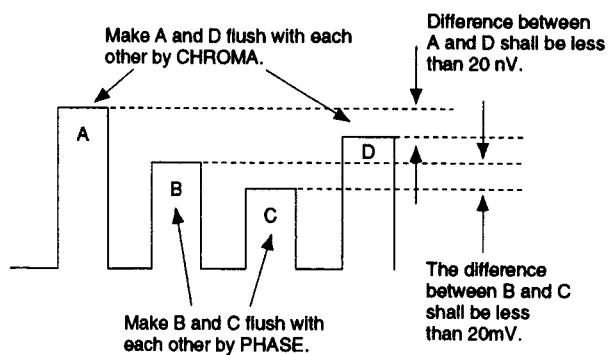


Fig. 5-22

10-10. NTSC 443 CHROMA (ACC OFF)

Note : 10-10. is not applicable to the group of models 3.

- 1) Conduct ACC OFF via MENU.
- 2) Adjust [CHROMA NTSC 443 ACC OFF] in the same way as 10-9-4). (Fig.5-23)

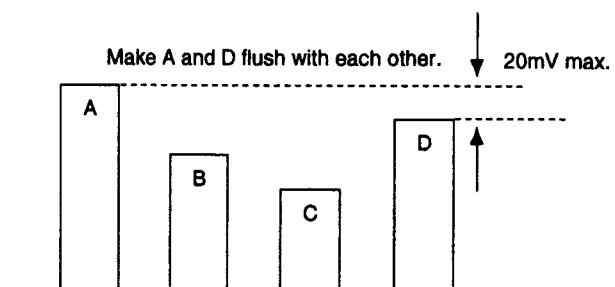


Fig. 5-23

10-11. NT 443 R-Y LEVEL

Note : Be sure to set ACC in the ON position before this adjustment.

- 1) Input an NTSC 443 color bar.
- 2) Connect the probe of an oscilloscope to TP401.
- 3) Set the unit in the service mode.
- 4) Adjust **R-Y LEVEL NTSC 443** in the same way as 10-6-4). (Fig.5-24)

Make adjustment so that B = D. (20 mV max.) Check that the difference between B and C is 60 mV or less.

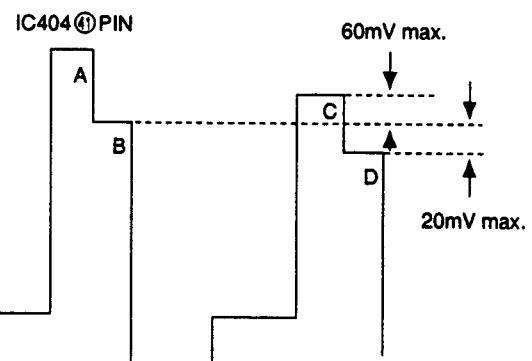
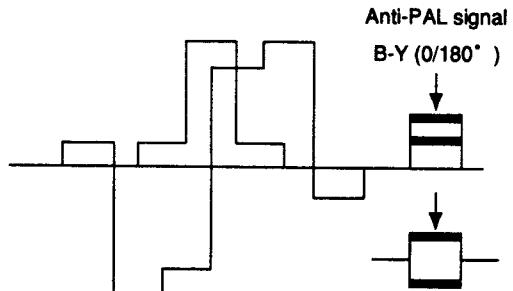


Fig. 5-24

10-12. PAL PHASE (NORMAL)

- 1) Input a PAL SP color bar.
- 2) Connect the probe of an oscilloscope to TP306.
- 3) Set the unit in the service mode.
- 4) Adjust **PHASE PAL NOR** so that the waveform of the B-Y anti-PAL signal will be "0."



*The signal waveform differs slightly every hour.
Adjust it to "0."

Fig. 5-25 R-Y OUT

10-13. PAL PHASE (ACC OFF)

Note : 10-13. is not applicable to the group of models 3.

- 1) Conduct ACC OFF via MENU.
- 2) Adjust **PHASE PAL ACC OFF** in the same way as 10-12-4).

10-14. PAL B-Y PHASE

Note : Be sure to set ACC in the ON position before this adjustment.

- 1) Input a PAL SP color bar.
- 2) Connect the probe of an oscilloscope to TP305.
- 3) Set the unit in the service mode.
- 4) Adjust **B-Y PHASE PAL** so that the waveform of the R-Y anti-PAL signal will be "0." (Fig.5-26)

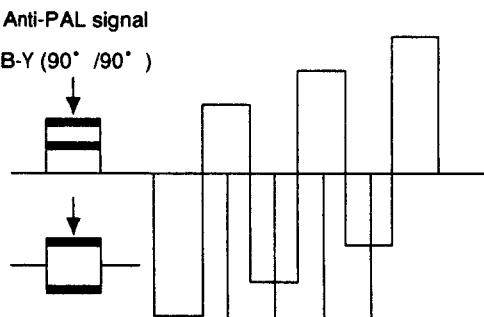


Fig. 5-26 B-Y OUT

10-15. PAL CHROMA (NORMAL)

- 1) Input a PAL color bar.
- 2) Connect the probe of an oscilloscope to IC404 ⑩ PIN or TP402.
- 3) Set the unit in the service mode.
- 4) Adjust **CHROMA PAL NOR** so that the peaks of waveforms will be flush with each other. (Fig.5-27)

10-16. PAL CHROMA (ACC OFF)

Note : 10-16. is not applicable to the group of model 3.

- 1) Conduct ACC OFF via MENU.
- 2) Adjust **CHROMA PAL ACC OFF** in the same way as 10-15-4). (Fig.5-27)

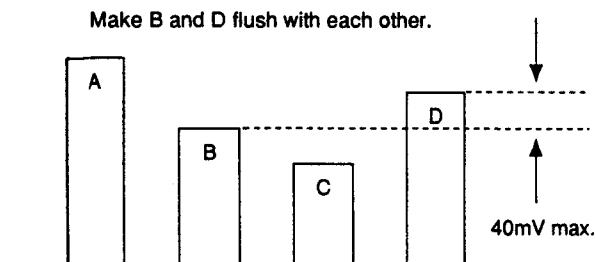


Fig. 5-27

10-17. PAL R-Y LEVEL

Note : Be sure to set ACC in the ON position before this adjustment.

- 1) Input a PAL color bar.
- 2) Connect the probe of an oscilloscope to IC404 ⑩ PIN or TP401.
- 3) Set the unit in the service mode.
- 4) Adjust **R-Y LEVEL PAL** so that the peaks of waveforms will be flush with each other as shown on the right. (Fig.5-28)

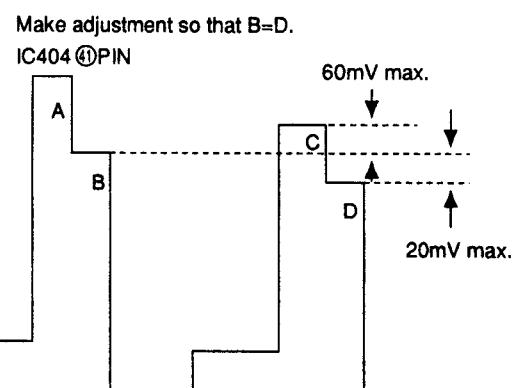


Fig. 5-28

11. SECAM adjustment

Note : Make adjustment after deflection adjustment.

Note : Subject to H-FREQ, H-BLK, VIDEO-PHASE, ANGLE, BOW, H-DELAY, etc.

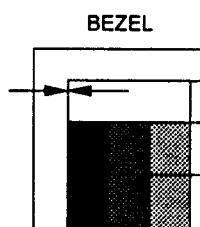
Note: 11. SECAM adjustment is not applicable to the group of models 3.

11-1. HP WIDTH (NORMAL) adjustment

- 1) Input a SECAM color bar.

Note : The board is roughly adjusted in 11-1., and IC317 ⑩ PIN pulse width may be used for control.

- 2) Set the unit in the UNDER SCAN mode.
- 3) Set the unit in the service mode.
- 4) Adjust **HP WIDTH NOR** so that the color section at the left edge of the upper portion of the screen is about to disappear. (Fig.5-29)



Make adjustment so that colors are about to disappear.

Fig. 5-29

11-2. Writing HP.WIDTH (NORMAL) data

Note : Not applicable to groups of models 1, 2, 4, and 5.

- 1) Set the unit in the service mode.
- 2) Input 102 to HP.WIDTH (NOR).

11-3. HP POSITION adjustment

Note : 11-3. is not applicable to the group of models 3.

- 1) Input a SECAM color bar.
- 2) Set the HV-DL mode.
- 3) Set the unit in the service mode.
- 4) Adjust **HP POSITION** as shown in Fig.5-30.

Note : The same as 11-3. The phase relationship between the beginning of IC317 ⑩ PIN pulse and the input VIDEO signal may be used for control.

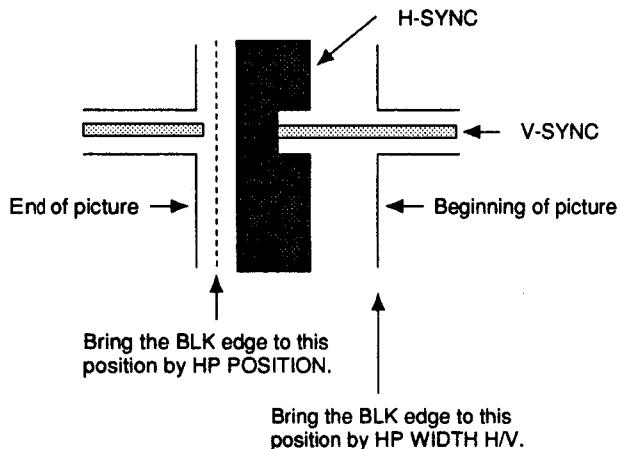


Fig. 5-30

11-4. HP WIDTH (H/V-DL) adjustment

Note : 11-4. is not applicable to the group of models 3.

- 1) Input a SECAM color bar.
- 2) Set the unit in the HV-DELAY mode.
- 3) Set the unit in the service mode.
- 4) Adjust **HP WIDTH H/V-DELAY** as shown in Fig.5-30. (Note: Check HP POSITION. If it is not in position, repeat 2) and 3).)

11-5. SECAM COL BALANCE

Note : 11-5. is not applicable to the group of models 3.

- 1) Input a SECAM color bar.
- 2) Connect the probe of an oscilloscope to TP306.
- 3) Set the unit in the service mode.
- 4) Adjust **SECAM COLOR BALANCE R-Y** so that the level in the achromatic color will be straight.

11-6. SECAM CHROMA

- 5) Connect the probe of an oscilloscope to TP305.
- 6) Adjust **SECAM COLOR BALANCE B-Y** so that the level in the achromatic color will be straight.

11-6. SECAM CHROMA

- 1) Input a SECAM color bar.
- 2) Connect the probe of an oscilloscope to IC404 ⑩ PIN or TP402.
- 3) Set the unit in the service mode.
- 4) Adjust **CHROMA SECAM** so that the peaks of waveforms will be flush with each other as shown in Fig.5-31.

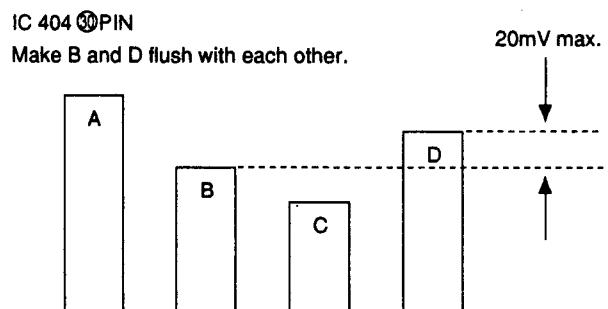


Fig. 5-31

11-7. SECAM R-Y LEVEL

- 1) Input a SECAM color bar.
- 2) Connect the probe of an oscilloscope to IC404 ⑪ PIN or TP401.
- 3) Set the unit in the service mode.
- 4) Adjust **R-Y LEVEL SECAM** so that the peaks of waveforms will be flush with each other as shown in Fig.5-32.

IC404 ⑪PIN Make adjustment so that B=D.

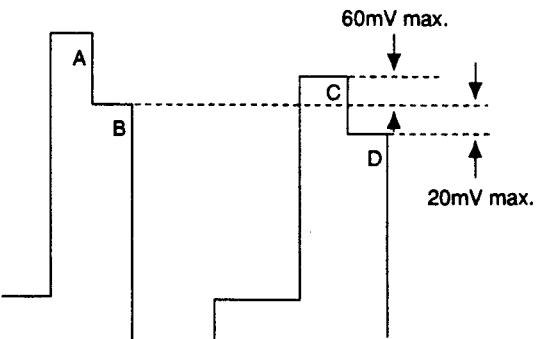


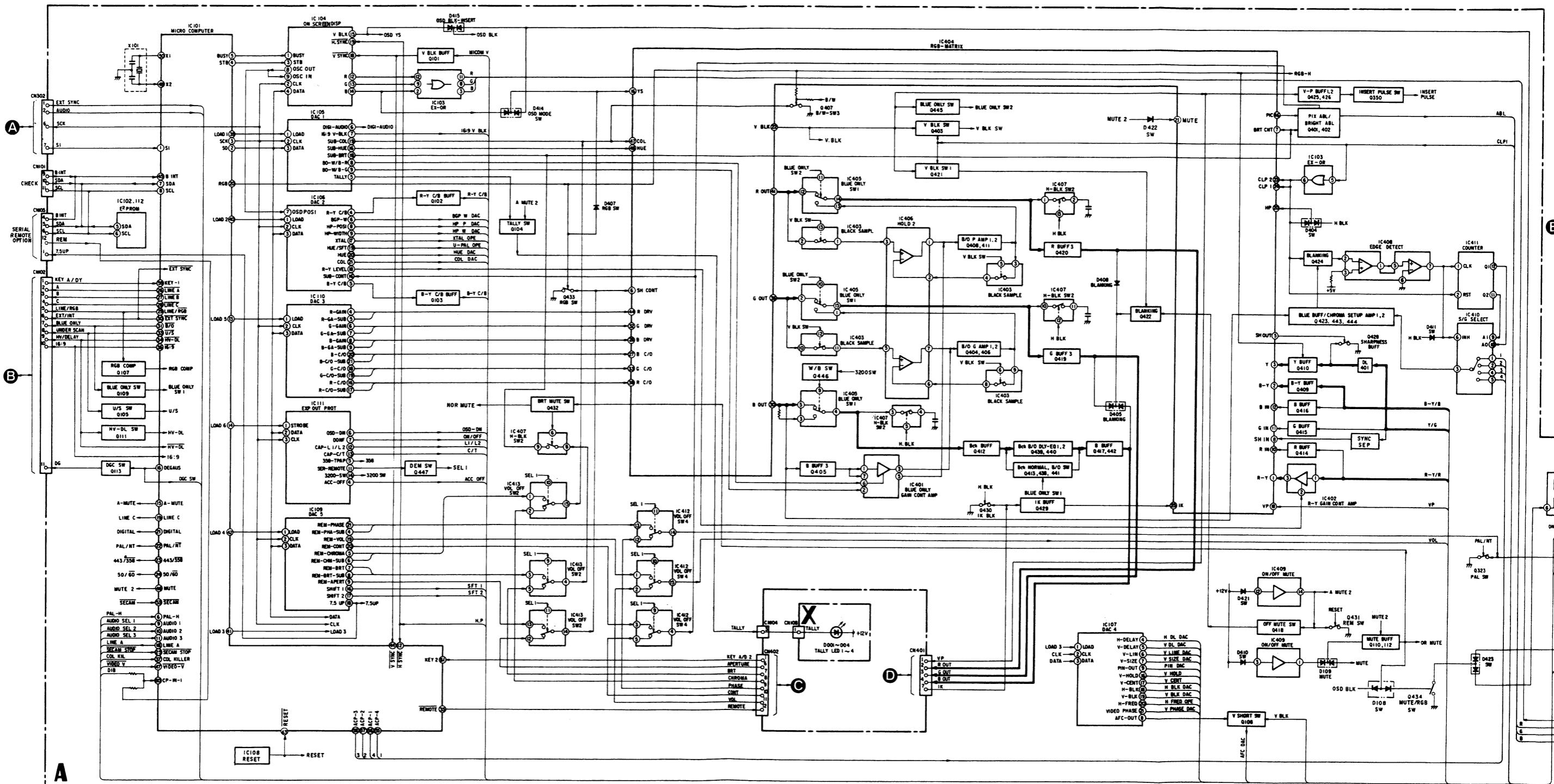
Fig. 5-32

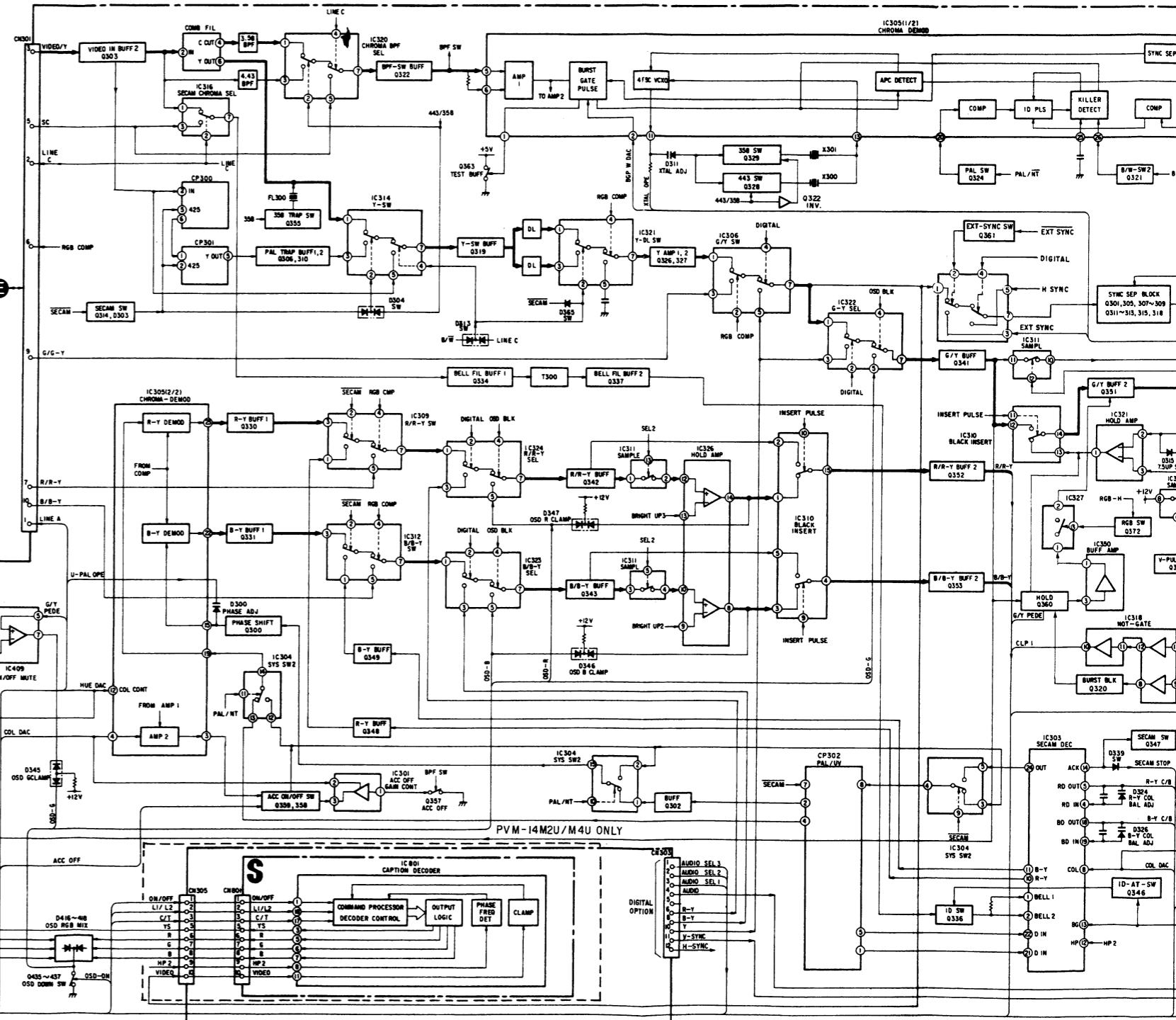
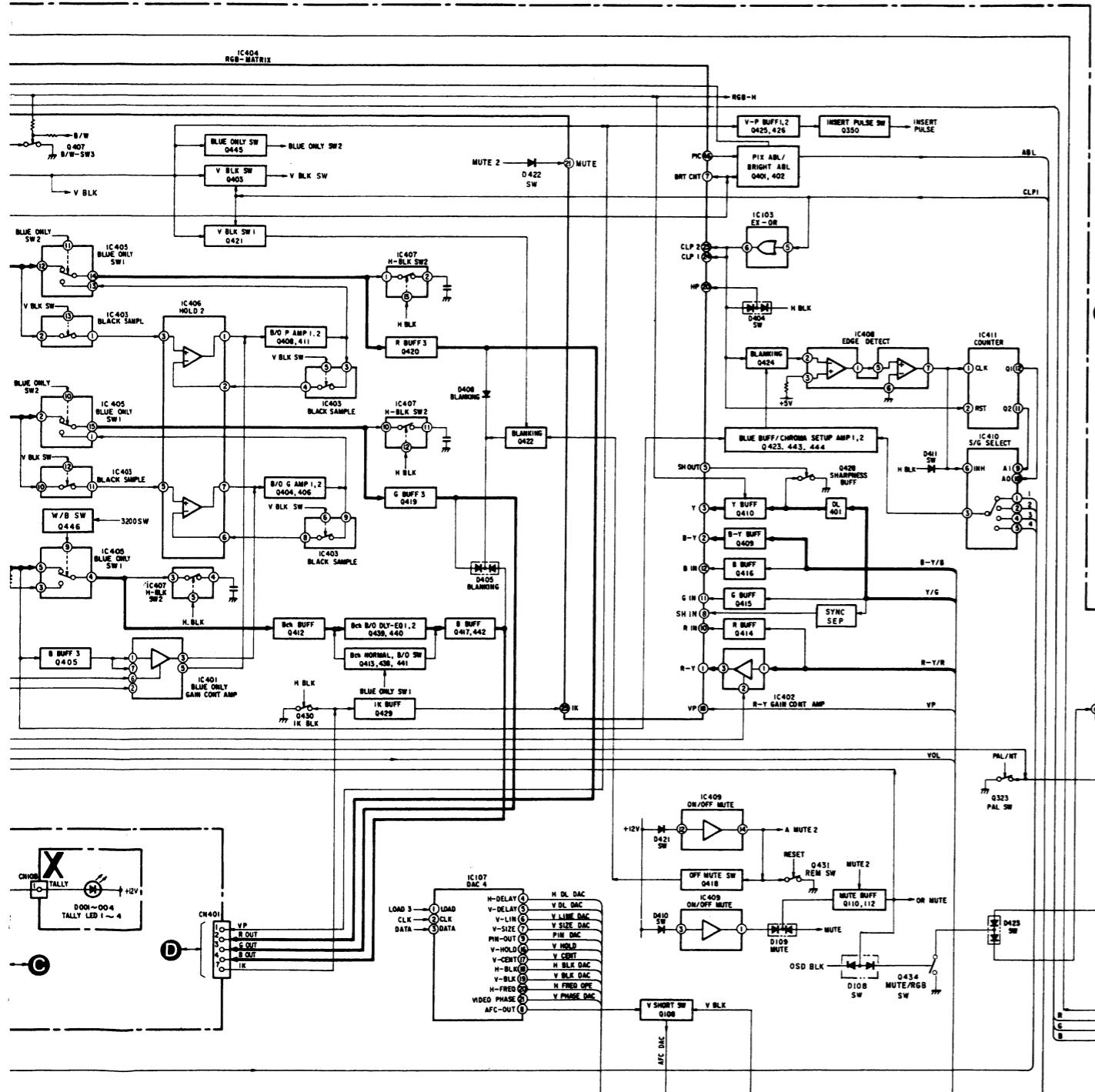
12. Writing adjustment results

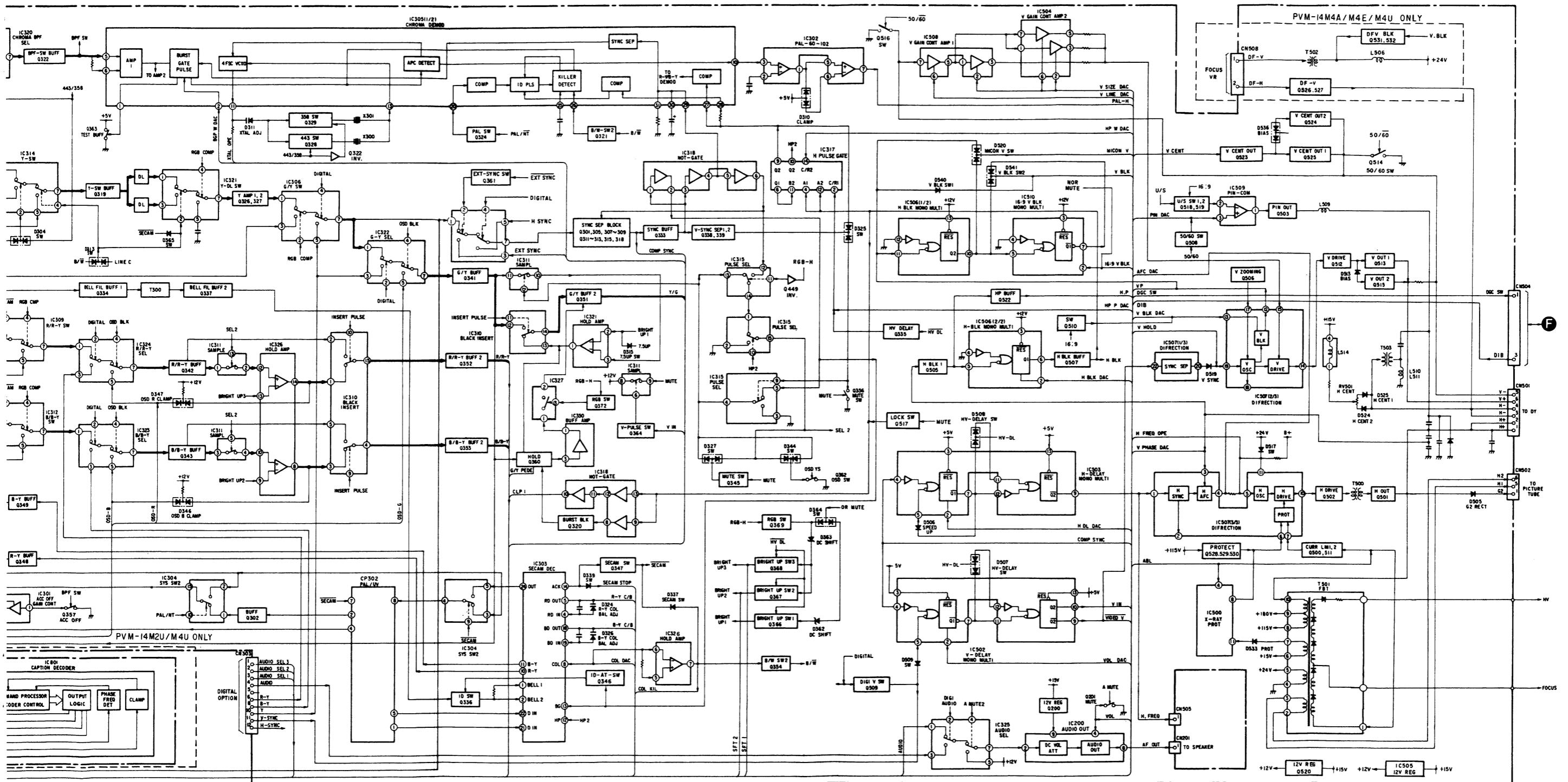
Write adjustment results in the memory.

SECTION 6 DIAGRAMS

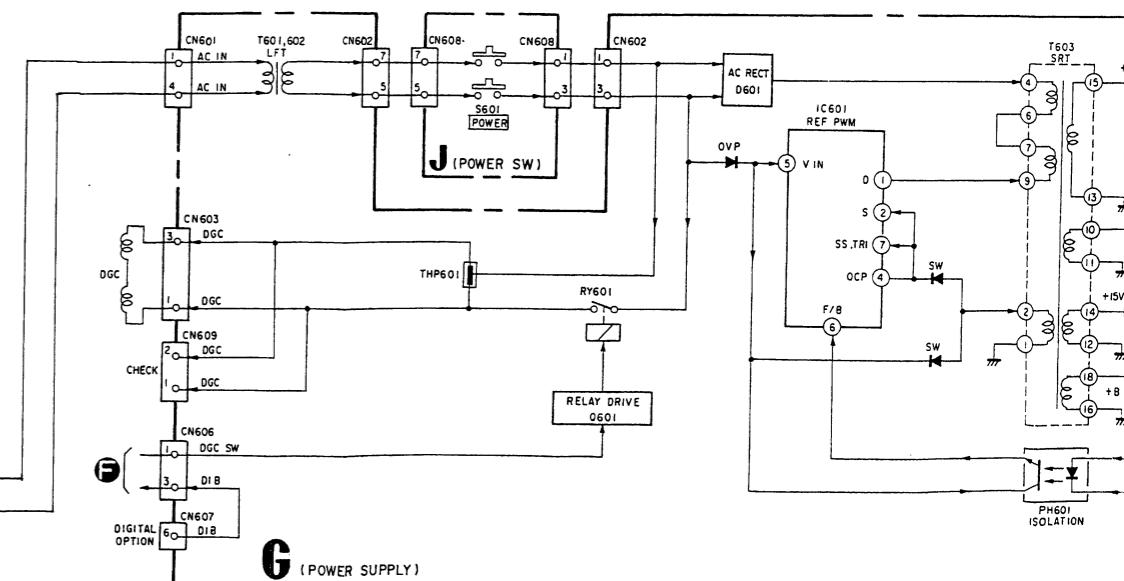
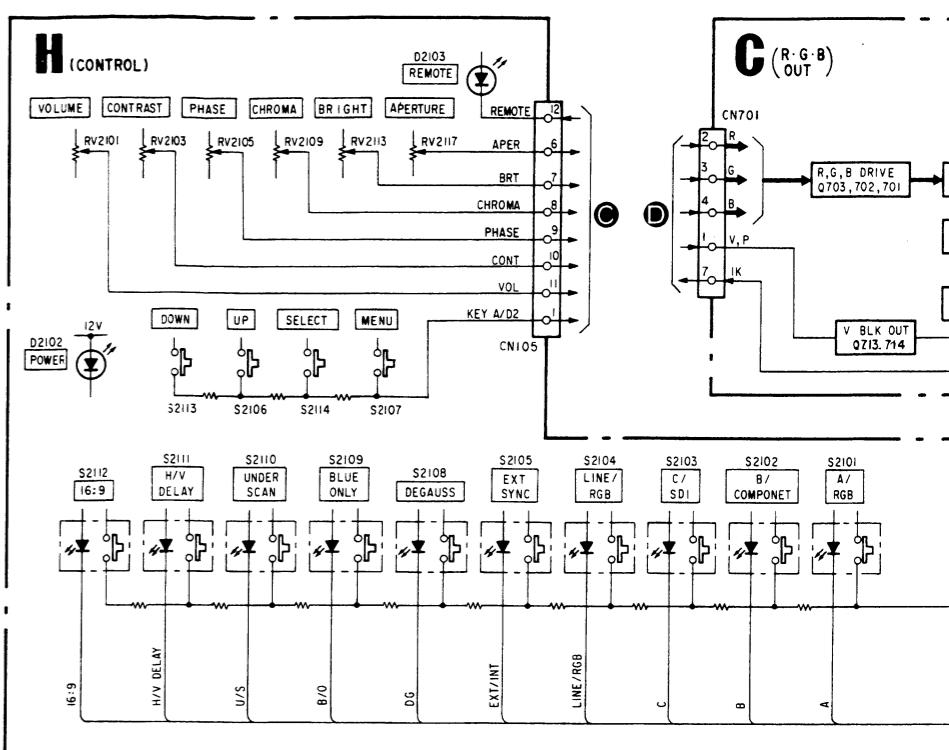
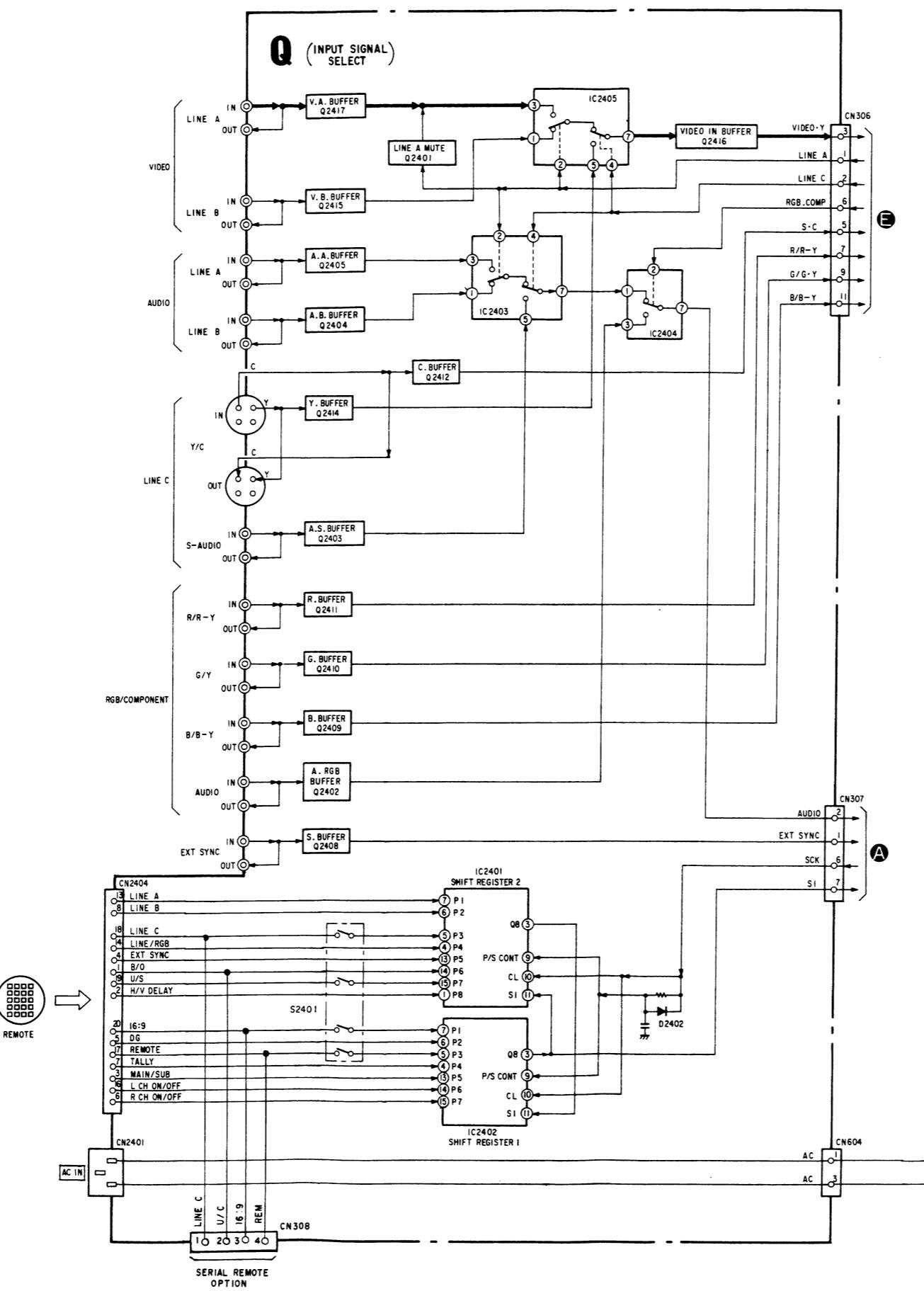
6-1. BLOCK DIAGRAMS (1)

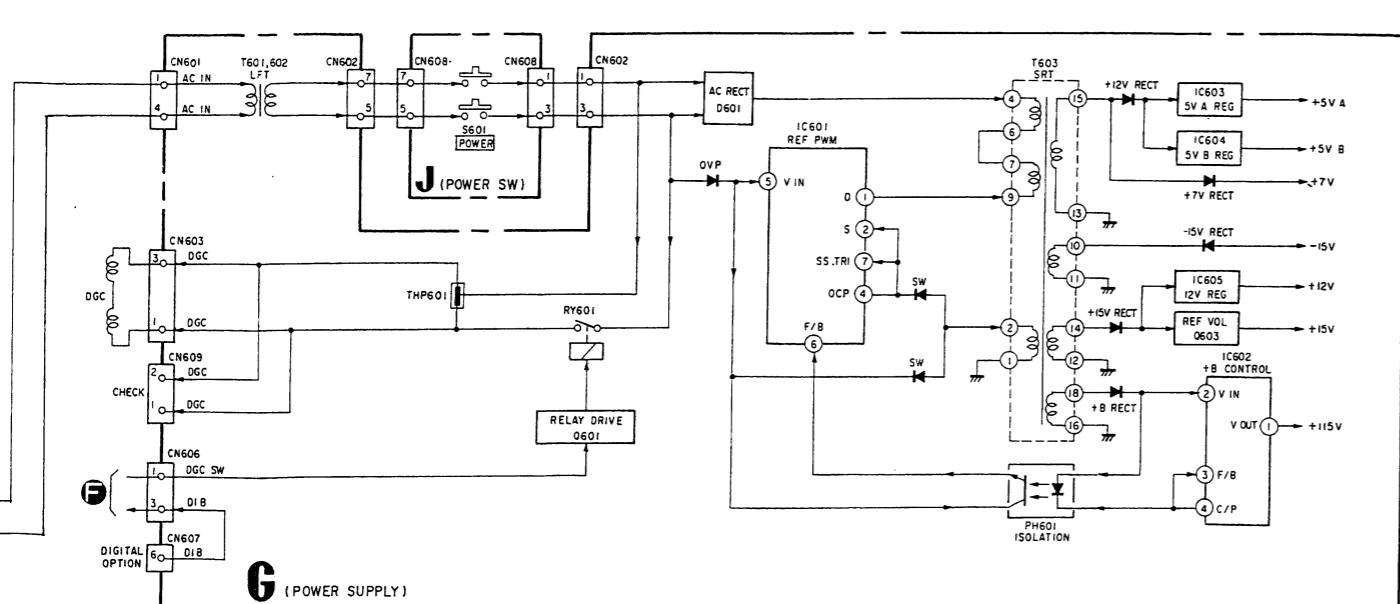
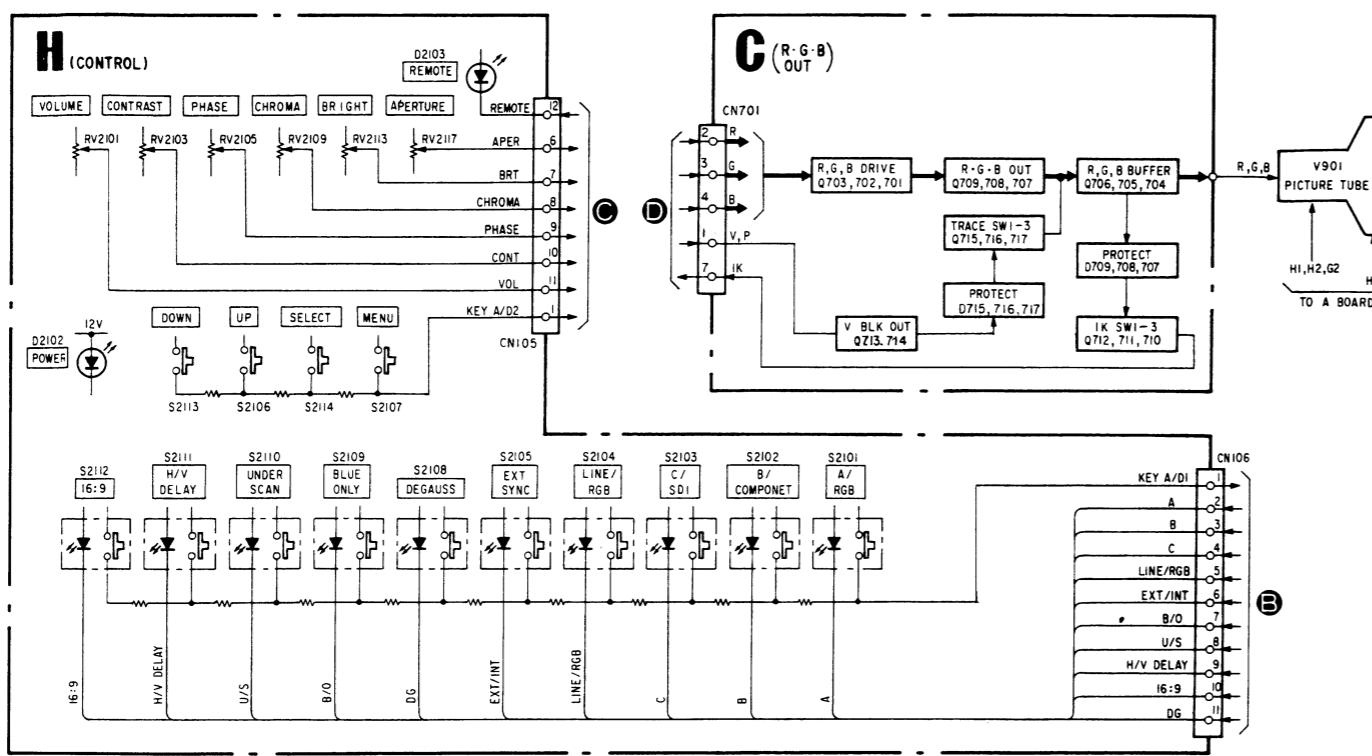




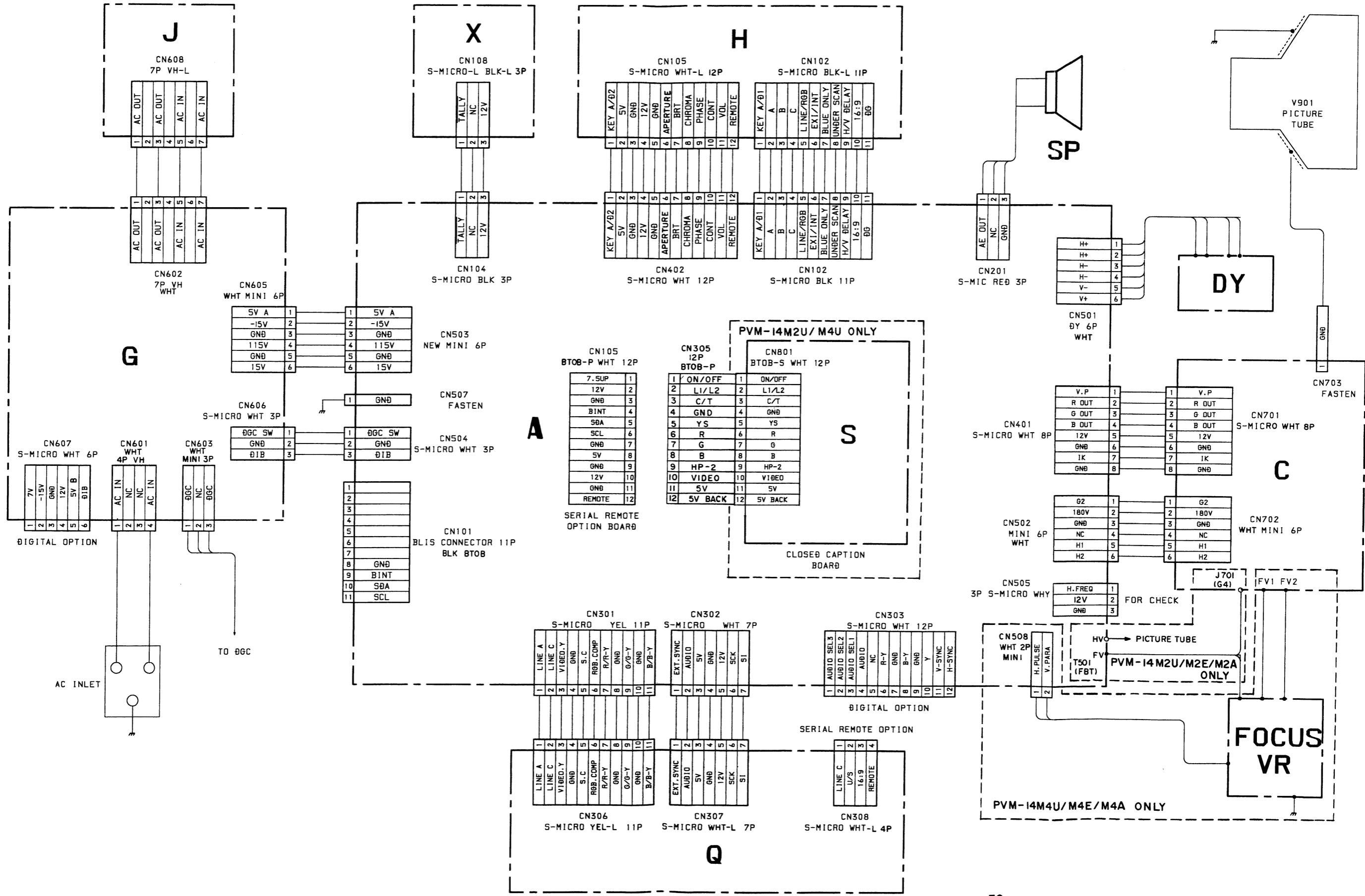


BLOCK DIAGRAMS (2)

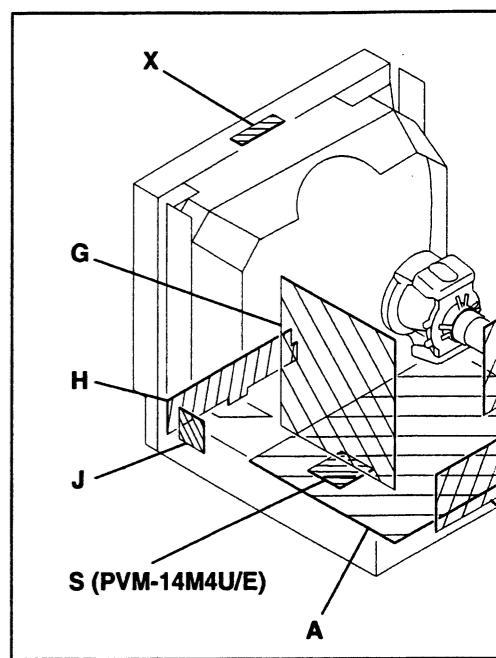




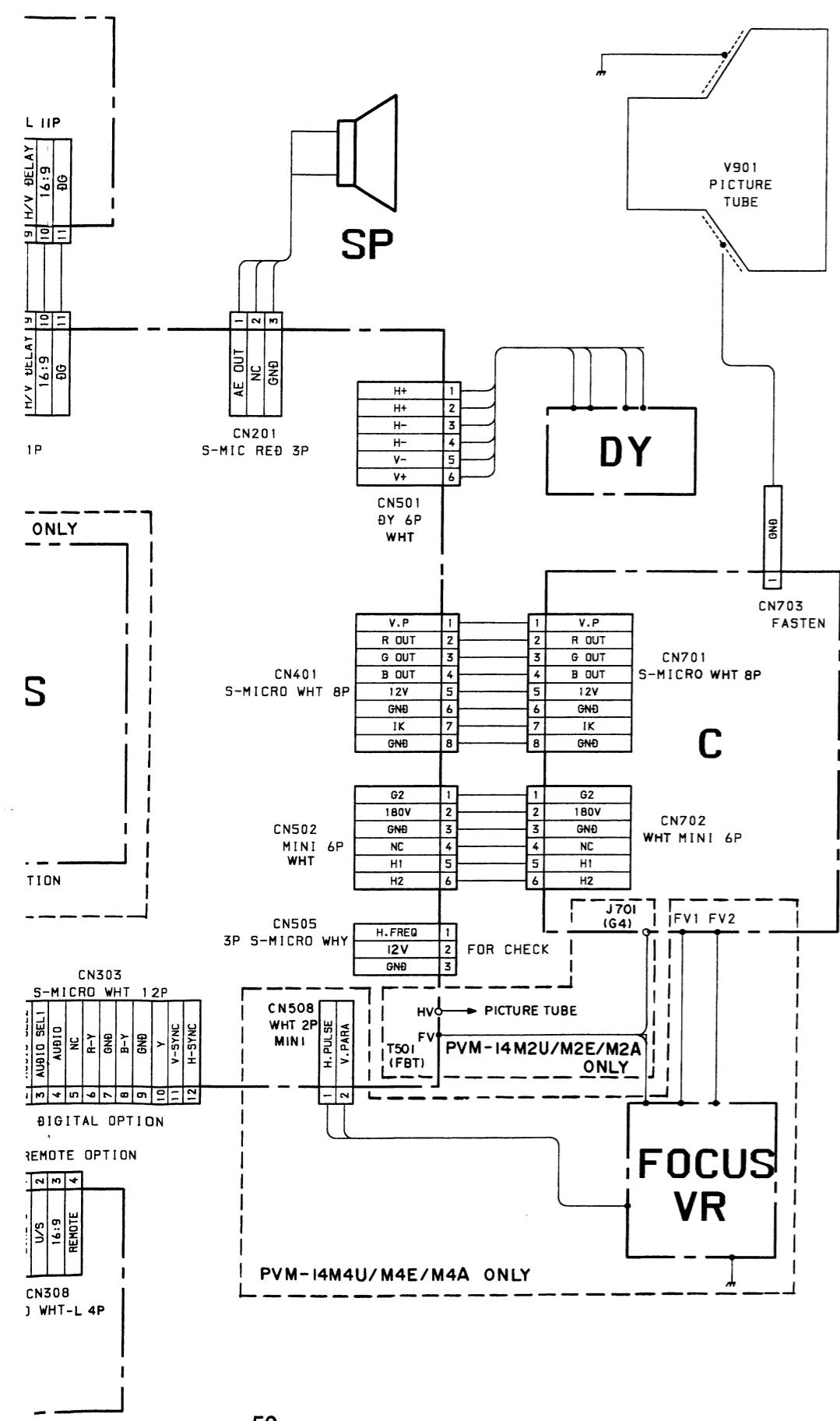
6-2. FRAME SCHEMATIC DIAGRAM



6-3. CIRCUIT BOARDS LOCATION



MEMO



6-4. PRINTED WIRING BOARDS AND S

Note:

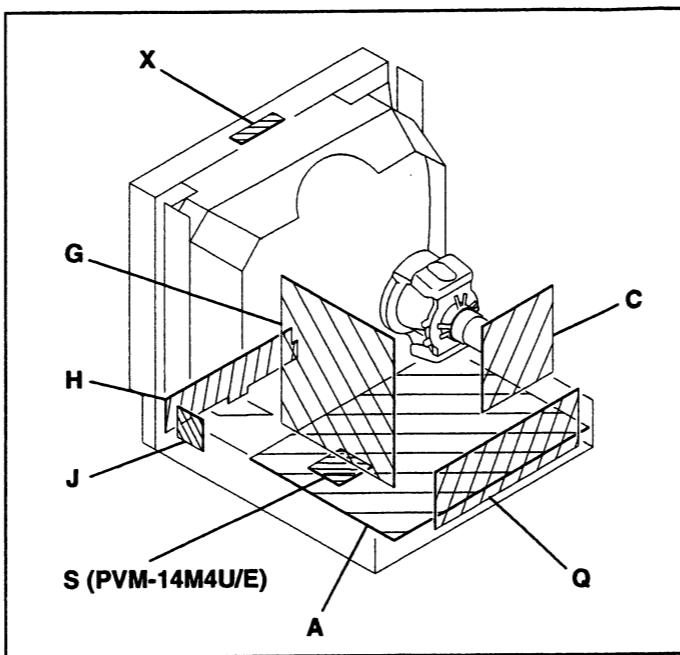
- All capacitors are in μF unless otherwise noted. 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one foot for electrical power, is as follows.

Pitch: 5 mm
Rating electrical power $1/4\text{ W}$

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristics B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the originally used.
- When replacing components identified by , make necessary adjustments indicated. If results do not meet specified value, change the component identified by repeat the adjustment until the specified value is achieved. (Refer to R1536 adjust on Page 25 and 26.)
- When replacing the part in below table, be sure to perform related adjustment.

Part replaced	A
C512, C513, C523, C549, C592, D501, D533, IC500, IC507, Q500, Q511, R506, R508, R515, R516, R517, R518, R519, R551, R1537, R1560..... (A BOARD)	(H)

6-3. CIRCUIT BOARDS LOCATION



6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power $1/4 \text{ W}$
- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R1536 adjust on Page 25 and 26.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (Adjustment (
C512, C513, C523, C549, C592, D501, D533, IC500, IC507, Q500, Q511, R506, R508, R515, R516, R517, R518, R519, R551, R1537, R1560..... (A BOARD)	R1536 (HOLD-DOWN)

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B + bus.
- : B - bus.
- : signal path.
- No mark : with PAL colour-bar signal received or common voltage.
- For the respective voltage ratings in SECAM, NTSC 3.58, NTSC 4.43 S-VIDEO, and ANALOG RGB modes, see the table

Reference information

RESISTOR	: RN METAL FILM : RC SOLID : FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE : RW NONFLAMMABLE WIREWOUND : RS NONFLAMMABLE METAL OXIDE : RB NONFLAMMABLE CEMENT
COIL	: LF-8L MICRO INDUCTOR
CAPACITOR	: TA TANTALUM : PS STYROL : PP POLYPROPYLENE : PT MYLAR : MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE : ALB BIPOLAR : ALT HIGH TEMPERATURE : ALR HIGH RIPPLE

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

A

MICON, RGB-MATRIX, DAC,
ON SCREEN DISPLAY, ON/OFF MUTE,
VOL OFF SW, BLACK-SAMPLING, RGB SW

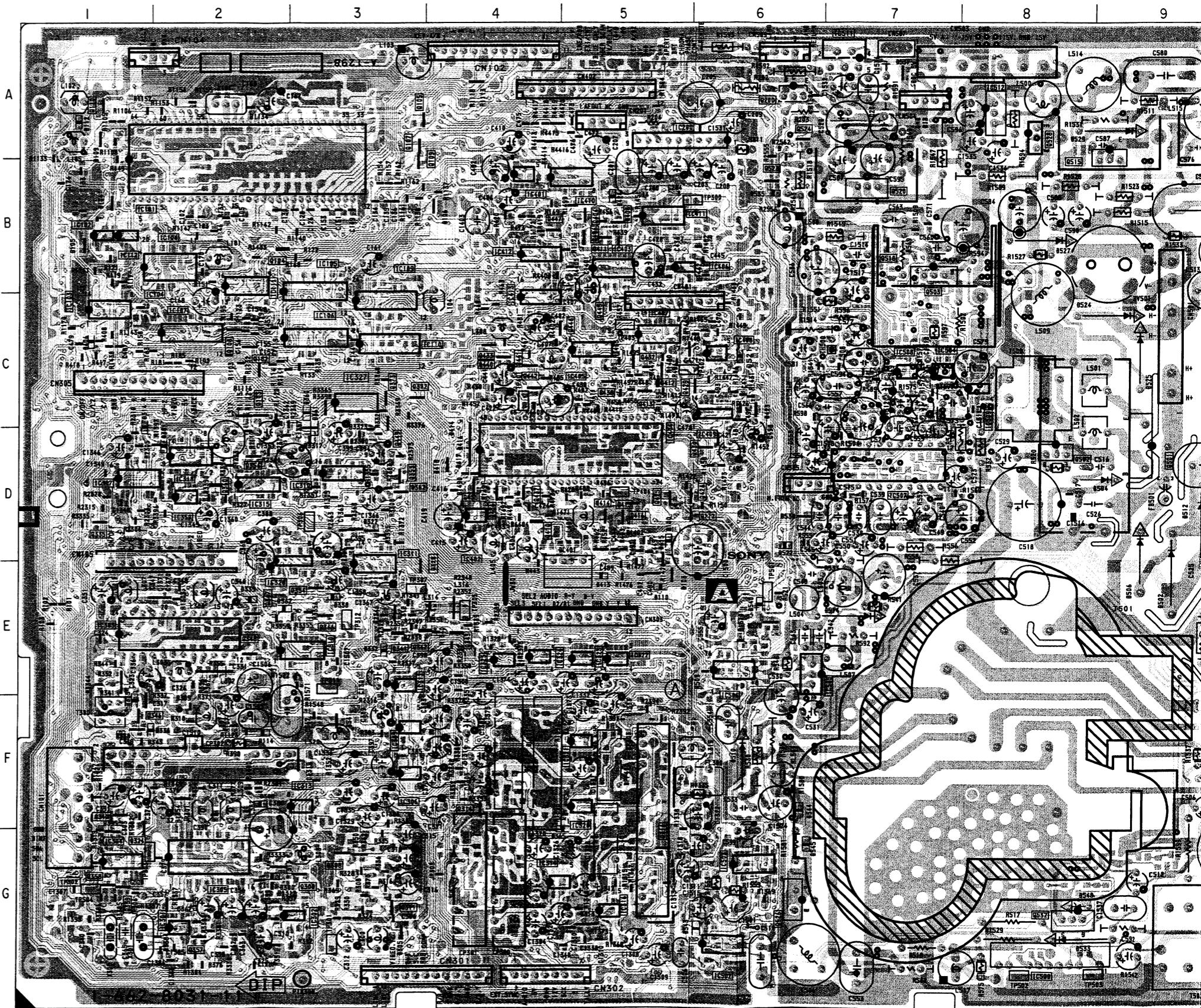
CHROMA DEMOD, SECAM CHROMA SELECT, SYSTEM SW,
SYNC SELECT, B/B-Y SW, R/R-Y SW, G/Y SW,
AUDIO SELECT, SECAM DECODER, HOLD AMP

H/V OUT, DEFLECTION SYSTEM,
AUDIO OUT

**A BOARD
(COMPONENT SIDE)**

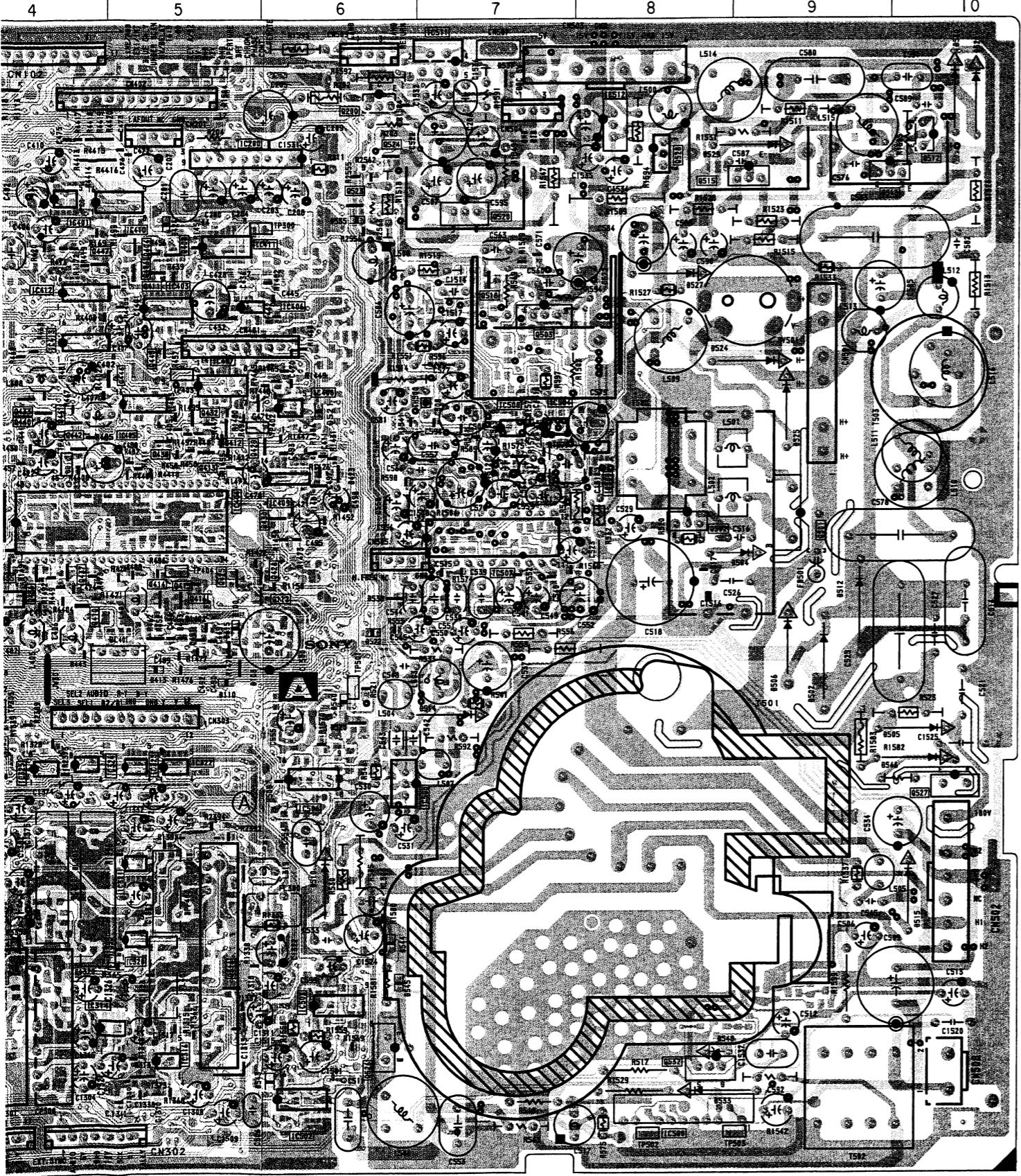
IC		Q108 C-2	Q527 E-10
IC101	B-2	Q109 A-3	Q528 A-8
IC102	B-2	Q110 A-1	Q532 G-8
IC103	C-1	Q112 D-6	
IC104	B-2	Q200 A-6	
IC105	B-3	Q300 G-3	
IC106	C-3	Q308 G-3	D100 D-5
IC107	C-2	Q311 G-3	D104 B-1
IC108	C-3	Q314 F-4	D105 B-1
IC109	C-3	Q316 F-5	D106 B-4
IC110	C-3	Q320 E-3	D108 E-5
IC111	B-2	Q324 G-1	D109 A-1
IC112	B-2	Q335 D-1	D110 E-5
IC200	A-5	Q340 F-1	D112 A-1
IC301	G-2	Q341 E-3	D114 F-2
IC302	G-3	Q342 E-3	D300 G-2
IC303	E-1	Q343 E-4	D301 D-2
IC304	G-1	Q346 F-1	D305 G-3
IC305	G-2	Q347 E-2	D308 F-2
IC306	F-3	Q348 E-2	D313 G-5
IC309	F-3	Q353 D-3	D314 C-1
IC310	D-3	Q354 E-3	D327 D-3
IC311	E-3	Q355 F-5	D332 E-3
IC312	E-3	Q356 D-2	D335 F-1
IC313	F-2	Q357 G-2	D336 F-1
IC314	G-4	Q358 G-1	D338 E-3
IC315	D-2	Q359 G-1	D339 E-2
IC316	G-5	Q360 D-2	D360 C-3
IC317	D-1	Q362 D-3	D361 C-3
IC318	D-2	Q365 E-3	D362 E-2
IC320	F-5	Q366 E-3	D365 G-4
IC321	F-5	Q372 C-3	D381 D-2
IC322	E-5	Q373 C-3	D406 C-1
IC323	E-5	Q374 C-3	D413 E-5
IC324	E-4	Q404 B-5	D414 D-4
IC325	E-4	Q406 B-5	D415 D-5
IC326	E-2	Q410 D-4	D417 D-4
IC327	C-3	Q411 B-5	D418 D-4
IC328	E-5	Q412 C-5	D423 C-6
IC401	B-4	Q413 C-5	D424 B-5
IC402	D-4	Q414 D-5	D502 E-9
IC403	B-5	Q415 D-5	D504 D-9
IC404	D-4	Q416 D-5	D505 E-10
IC405	C-5	Q425 D-5	D506 D-9
IC406	B-5	Q426 D-6	D510 F-6
IC407	C-5	Q429 C-5	D512 D-9
IC408	C-6	Q430 D-6	D514 E-7
IC409	C-6	Q432 C-5	D515 F-10
IC410	B-5	Q433 C-4	D520 E-6
IC411	B-5	Q435 D-4	D521 C-6
IC412	B-4	Q436 D-4	D522 D-6
IC413	C-4	Q437 D-4	D524 C-8
IC500	G-8	Q438 C-5	D525 C-9
IC502	G-6	Q440 C-4	D527 B-8
IC503	G-6	Q441 C-4	D528 A-10
IC504	C-7	Q442 C-4	D529 A-8
IC505	E-6	Q445 C-5	D530 A-10
IC506	E-6	Q446 C-5	D533 G-8
IC507	D-7	Q447 B-4	D535 B-6
IC508	C-7	Q449 D-3	D537 A-7
IC509	C-8	Q501 D-9	D538 D-6
IC510	E-3	Q502 D-8	D540 E-6
IC511	A-7	Q503 B-7	D541 F-3
IC512	A-8	Q512 A-10	D543 G-6
		Q513 A-9	D544 F-6
		Q515 A-8	D545 G-6
		Q518 B-7	D546 E-10
		Q520 B-7	D548 G-8
		Q523 B-6	
		Q524 A-6	
		Q525 A-6	
		Q526 G-6	
		RV501 B-9	

-A BOARD- <Component Side>



• : Pattern from the side
• : Pattern of the rear side

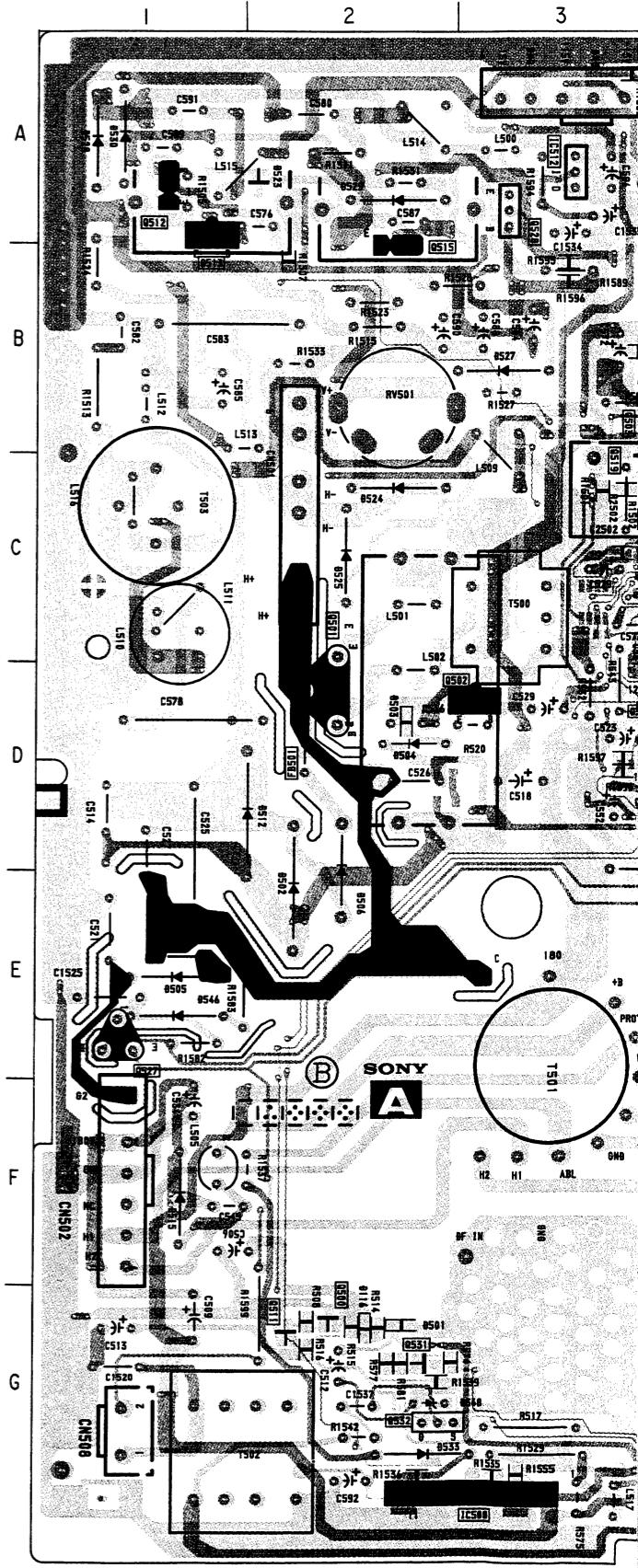
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.



**A BOARD
(CONDUCTOR SIDE)**

IC	Q405	C-6	D322	D-9
IC101	A-9	C-7	D323	C-9
IC108	B-8	D-7	D324	E-9
IC200	A-5	C-5	D325	D-8
IC303	E-9	B-5	D326	E-9
IC404	D-6	C-6	D333	C-9
IC500	G-3	D-6	D337	E-8
IC505	E-4	B-5	D344	D-8
IC507	D-4	C-5	D345	E-7
IC511	A-4	C-5	D346	E-7
IC512	A-3	D-6	D347	E-7
TRANSISTOR	Q428	D-6	D363	E-8
Q101	A-9	B-5	D364	E-8
Q111	C-10	C-5	D401	B-7
Q113	A-7	D-2	D402	B-7
Q114	A-8	D-3	D404	D-6
Q200	A-5	B-3	D405	B-5
Q201	A-5	E-5	D407	D-7
Q301	G-8	B-4	D410	C-5
Q302	G-10	E-5	D411	B-6
Q303	G-6	D-5	D421	C-5
Q305	G-8	C-4	D422	C-5
Q306	G-7	C-4	D425	C-5
Q307	G-8	G-2	D427	B-6
Q309	G-8	A-1	D500	G-5
Q310	G-7	A-1	D501	G-2
Q312	G-8	B-4	D502	E-2
Q313	G-8	B-2	D503	D-2
Q315	G-8	C-4	D504	D-2
Q318	G-7	C-4	D505	E-1
Q319	F-7	C-3	D506	E-2
Q321	G-8	B-4	D507	G-5
Q322	G-6	E-5	D508	F-5
Q323	G-10	A-4	D509	G-5
Q325	F-8	G-4	D510	F-5
Q326	F-6	G-2	D511	E-5
Q327	F-6	A-3	D512	D-2
Q328	G-9	D-3	D513	E-5
Q329	G-9	D-4	D514	E-4
Q330	F-9	G-2	D515	F-1
Q331	F-9	G-2	D516	F-5
Q332	G-10	C-4	D517	E-4
Q333	D-9	D-9	D518	E-5
Q334	F-9	D-9	D519	C-4
Q336	E-10	D-9	D523	A-2
Q338	C-8	B-10	D524	C-2
Q339	D-8	B-9	D525	B-4
Q345	D-8	B-9	D527	B-3
Q349	E-9	B-9	D528	A-1
Q350	D-8	B-9	D529	A-2
Q351	D-8	B-9	D530	A-1
Q352	D-8	B-9	D531	B-4
Q355	F-5	B-9	D532	B-4
Q361	F-8	A-4	D533	G-2
Q363	G-9	G-8	D534	B-4
Q364	D-8	F-7	D536	A-5
Q367	E-8	G-7	D542	B-4
Q368	E-8	G-8	D546	E-1
Q369	E-8	G-8	D547	D-4
Q375	D-8	D-9	D548	G-2
Q401	B-6	E-8	VARIABLE RESISTOR	
Q402	B-6	D-8	RV501	B-2
Q403	B-6	D-9		

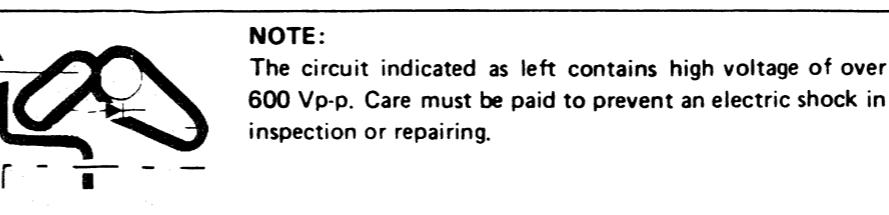
-A BOARD- <Conductor Side>



**A BOARD
(CONDUCTOR SIDE)**

IC	Q405 C-6	D322 D-9
IC101 A-9	Q407 C-7	D323 C-9
IC108 B-8	Q409 D-7	D324 E-9
IC200 A-5	Q417 C-5	D325 D-8
IC303 E-9	Q418 B-5	D326 E-9
IC404 D-6	Q419 C-6	D333 C-9
IC500 G-3	Q420 C-6	D337 E-8
IC505 E-4	Q421 B-5	D344 D-8
IC507 D-4	Q422 B-5	D345 E-7
IC511 A-4	Q423 C-5	D346 E-7
IC512 A-3	Q424 C-5	D347 E-7
TRANSISTOR		
Q101 A-9	Q428 D-6	D363 E-8
Q111 C-10	Q431 B-5	D364 E-8
Q113 A-7	Q434 C-5	D401 B-7
Q114 A-8	Q439 C-6	D402 B-7
Q200 A-5	Q444 B-5	D404 D-6
Q201 A-5	Q448 F-9	D405 B-5
Q301 G-8	Q500 G-2	D407 D-7
Q302 G-10	Q501 D-2	D410 C-5
Q303 G-6	Q502 D-3	D411 B-6
Q305 G-8	Q503 B-3	D421 C-5
Q306 G-7	Q505 E-5	D422 C-5
Q307 G-8	Q506 B-4	D425 C-5
Q309 G-8	Q507 E-5	D427 B-6
Q310 G-7	Q508 C-4	D500 G-5
Q312 G-8	Q509 G-5	D501 G-2
Q313 G-8	Q510 C-4	D502 E-2
Q315 G-8	Q512 A-1	D503 D-2
Q318 G-7	Q513 A-1	D504 D-2
Q319 F-7	Q514 B-4	D505 E-1
Q321 G-8	Q515 B-2	D506 E-2
Q322 G-6	Q516 C-4	D507 G-5
Q323 G-10	Q517 C-4	D508 F-5
Q325 F-8	Q519 C-3	D509 G-5
Q326 F-6	Q520 B-4	D510 F-5
Q327 F-6	Q522 E-5	D511 E-5
Q328 G-9	Q525 A-4	D512 D-2
Q329 G-9	Q526 G-4	D513 E-5
Q330 F-9	Q527 E-1	D514 E-4
Q331 F-9	Q528 A-3	D515 F-1
Q332 G-10	Q529 D-3	D516 F-5
Q333 D-9	Q530 D-4	D517 E-4
Q334 F-9	Q531 G-2	D518 E-5
Q336 E-10	Q532 G-2	D519 C-4
Q338 C-8	Q533 A-2	D523 A-2
Q339 D-8	Q534 B-4	D524 C-2
Q345 D-8	Q535 A-1	D525 C-2
Q349 E-9	Q536 A-4	D526 B-4
Q350 D-8	Q537 B-9	D527 B-3
Q351 D-8	Q538 B-9	D528 A-1
Q352 D-8	Q539 G-2	D529 A-2
Q355 F-5	Q540 G-2	D530 A-1
Q361 F-8	Q541 A-4	D531 B-4
Q363 G-9	Q542 G-8	D532 B-4
Q364 D-8	Q543 F-7	D533 G-2
Q367 F-8	Q544 G-7	D534 B-4
Q368 E-8	Q545 G-8	D536 A-5
Q369 E-8	Q546 G-8	D542 B-4
Q375 D-8	Q547 G-7	D546 E-1
Q401 B-6	Q548 G-8	D547 D-4
Q402 B-6	D307 G-8	D548 G-2
Q403 B-6	D309 G-8	
	D310 G-8	
	D311 G-9	
	D315 E-8	
	D317 D-9	
	D320 D-9	
DIODE		
D101 B-10		
D102 B-9		
D103 B-9		
D107 B-9		
D111 B-9		
D115 B-9		
D116 G-2		
D200 A-4		
D301 G-8		
D303 F-7		
D304 G-7		
D307 G-8		
D309 G-8		
D310 G-8		
D311 G-9		
D315 E-8		
D317 D-9		
D320 D-9		
VARIABLE RESISTOR		
RV501 B-2		

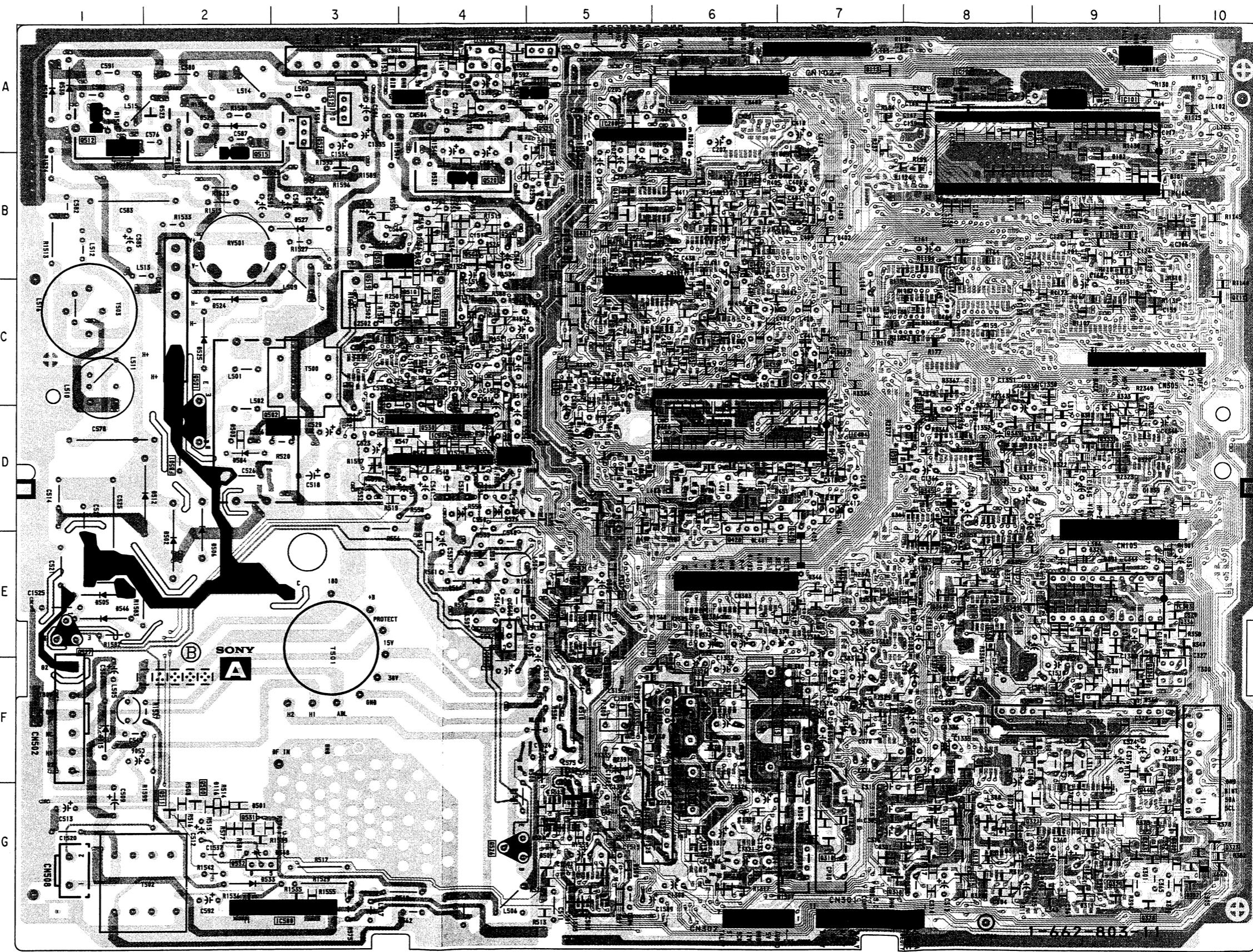
-A BOARD- <Conductor Side>

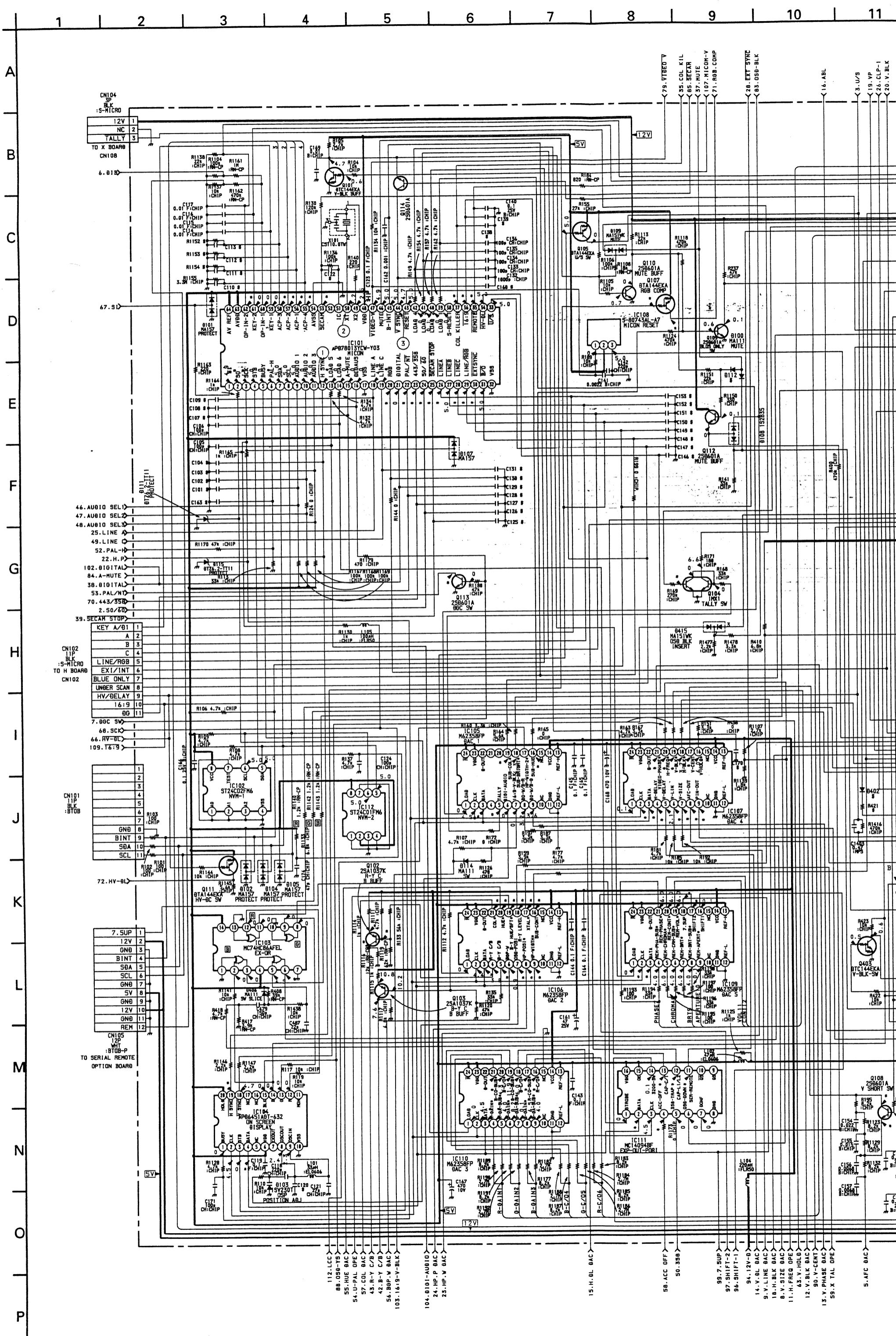


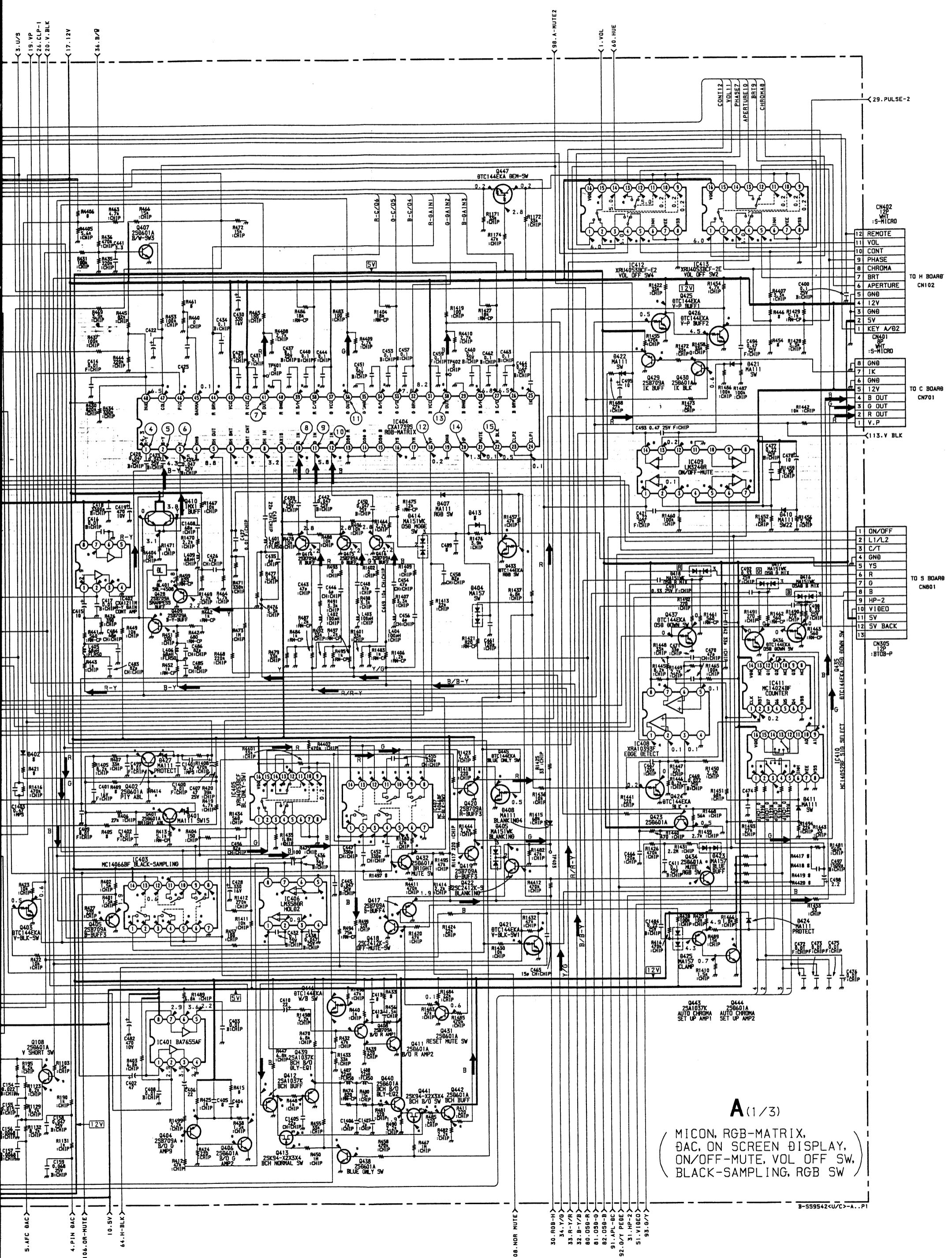
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

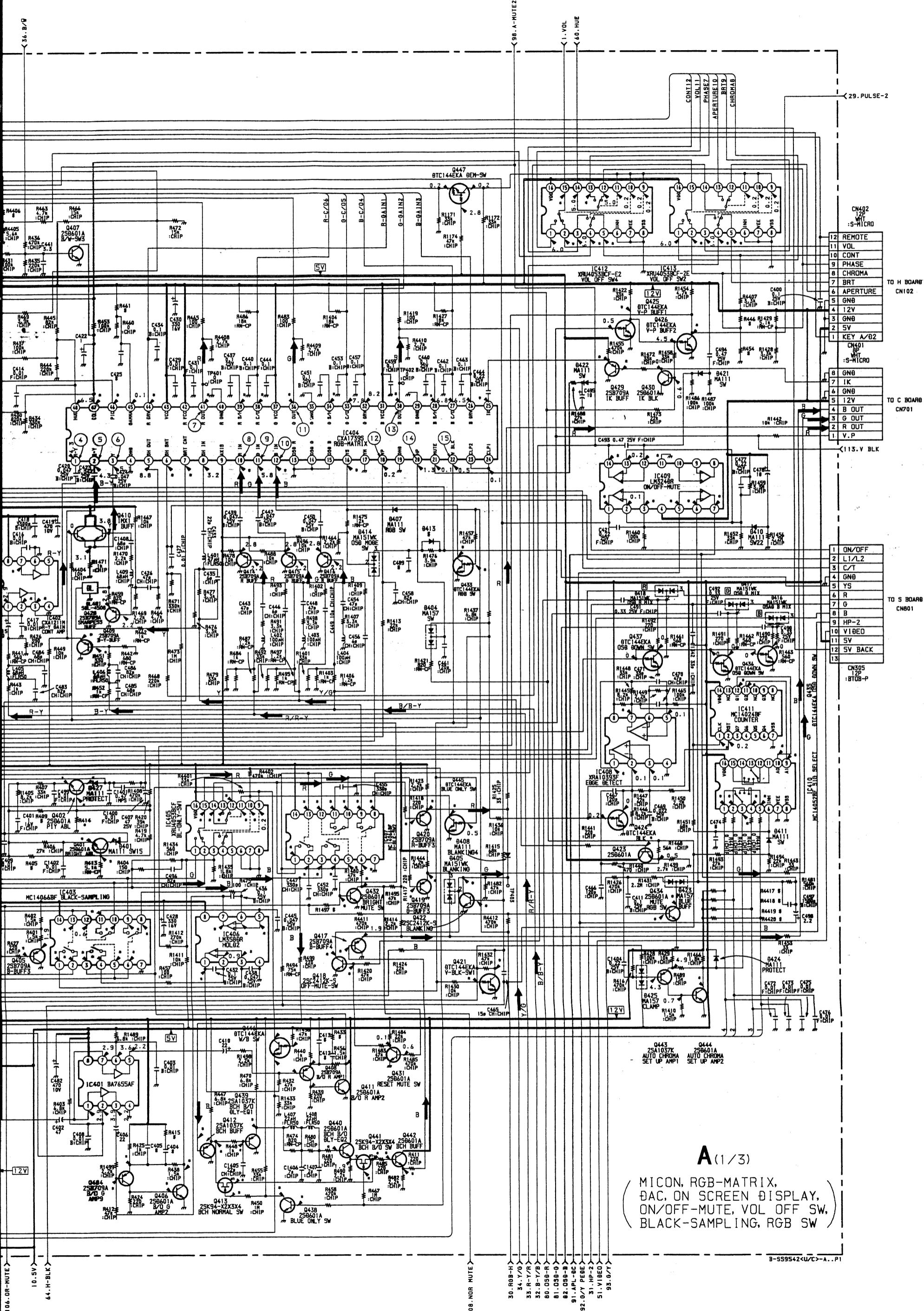
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.







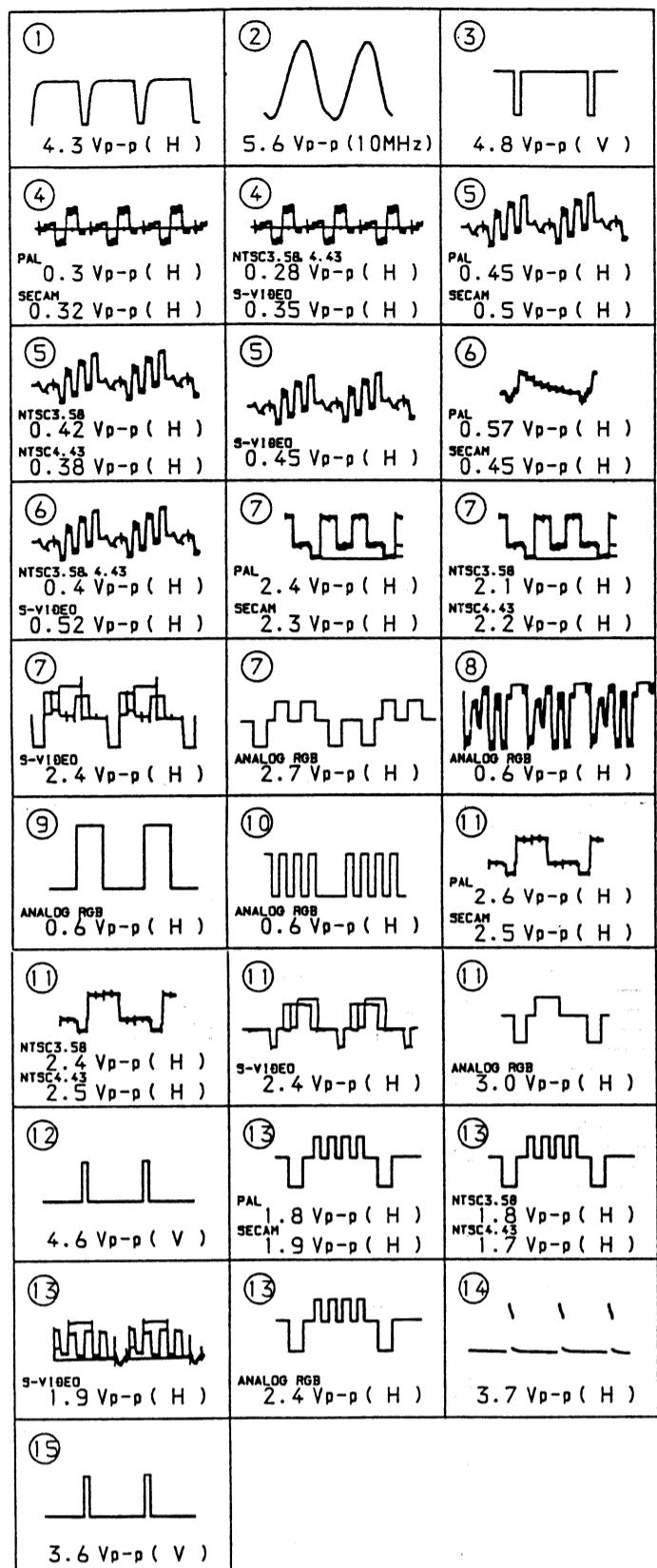
MICON, RGB-MATRIX,
DAC, ON SCREEN DISPLAY,
ON/OFF-MUTE, VOL OFF SW,
BLACK-SAMPLING, RGB SW



A (1/3)

MICON, RGB-MATRIX,
DAC, ON SCREEN DISPLAY,
ON/OFF-MUTE, VOL OFF SW,
BLACK-SAMPLING, RGB SW

A BOARD WAVEFORMS



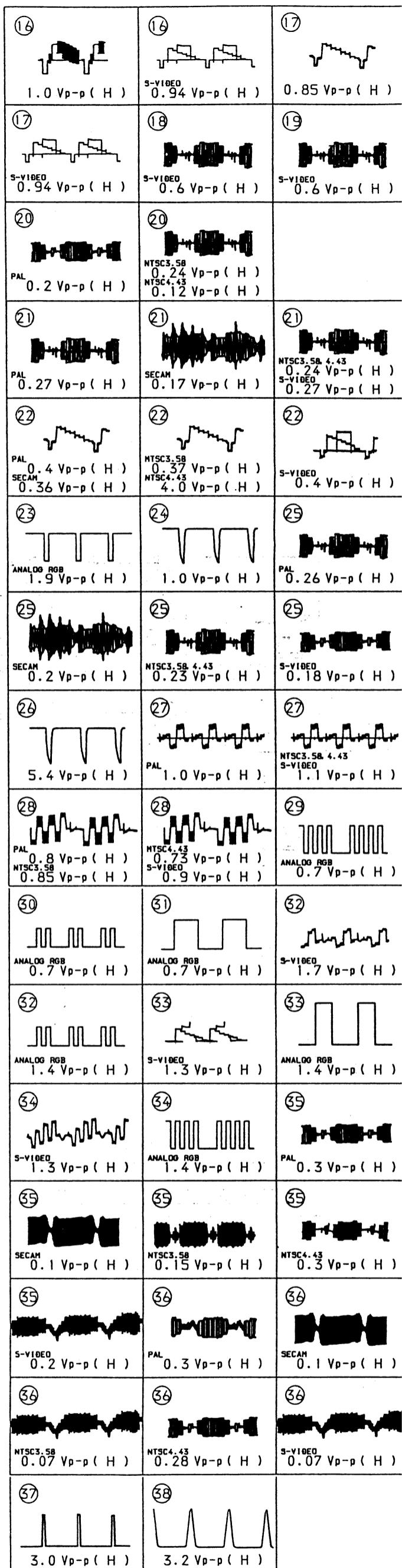
A BOARD (1/3) * MARK

	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	ANALOG RGB
IC101 ①	2.3	2.4	2.2	2.2	2.0	2.3
②	4.5	4.6	4.5	4.4	4.4	4.5
③	4.1	3.4	0	0.1	0	0
④	3.4	3.5	3.5	3.5	3.1	3.5
⑤	0	0	0	0	4.8	0
⑥	0	0	0	0	0	4.9
⑦	4.9	5.0	0	0	0	0
⑧	5.0	5.0	0	5.0	0	0
⑨	5.0	5.0	0	0	0	0
⑩	0	5.0	0	0	0	0
⑪	0.1	0	0.1	0.1	4.9	0.1
⑫	5.0	5.0	5.0	5.0	0	5.0
⑬	5.0	5.0	5.0	4.9	0.1	0.1
⑭	5.0	5.0	5.0	5.0	0.1	0.1
⑮	4.2	4.1	4.6	5.0	3.9	3.9
⑯	4.0	4.0	4.6	5.0	3.6	3.7
⑰	0.3	4.4	0.1	0.7	0.1	0.1
⑱	4.2	0.1	4.3	4.2	4.2	4.3
⑲	4.0	3.4	3.6	3.7	3.9	4.0
⑳	0.5	0.9	1.0	0.8	3.1	1.9
㉑	3.0	2.5	2.6	2.3	3.8	2.2
㉒	3.6	3.0	2.9	3.2	3.9	4.0
㉓	4.0	4.0	4.0	4.0	2.9	4.0
IC103 ㉔	0.2	0	0.2	0.2	0	0
IC104 ㉕	2.3	2.3	2.2	2.2	2.0	2.3
㉖	3.5	3.5	3.5	3.5	3.1	3.5
IC105 ㉗	2.3	2.3	2.2	2.2	0	2.3
㉘	0	0.1	0.1	0	11.8	0
㉙	2.6	2.7	2.7	2.6	2.8	2.6
㉚	5.4	5.4	5.4	6.6	8.1	8.1
IC106 ㉛	2.3	2.3	2.2	2.2	2.1	2.3
㉜	5.4	5.4	5.4	4.1	5.4	5.4
㉝	2.4	2.4	2.4	2.4	0.6	2.4
㉞	7.8	7.8	7.8	7.7	5.5	7.8
㉟	5.1	5.1	5.1	5.1	4.0	5.1
㉟	0.1	10.5	10.5	10.5	10.9	10.5
㉟	3.1	3.1	2.6	3.1	2.7	2.5
㉟	2.4	4.6	2.1	2.2	2.1	3.2
㉟	6.3	6.3	11.9	9.0	10.7	3.7
㉟	3.6	3.6	4.8	3.6	4.3	9.5
㉟	0.8	1.8	0.4	0.3	2.4	3.1
IC107 ㉟	4.6	4.5	4.5	4.5	4.4	4.5
㉟	2.3	2.3	2.2	0	2.1	0
㉟	2.8	2.8	2.8	3.3	2.8	2.8
㉟	1.5	1.4	1.4	1.4	2.3	1.4
㉟	2.9	2.9	2.9	2.9	2.1	2.9
㉟	2.6	2.6	2.6	2.6	2.9	2.6
㉟	2.9	2.9	2.9	2.9	2.6	2.9
㉟	2.6	2.6	2.8	2.8	2.8	2.8
㉟	3.2	3.2	5.4	5.4	5.3	5.4
㉟	4.5	4.6	5.0	5.0	3.7	5.0
㉟	6.3	6.3	6.1	6.1	6.0	6.1
IC109 ㉟	4.6	4.5	4.5	4.5	4.4	4.4
㉟	2.3	2.3	2.2	2.2	2.1	2.3
㉟	11.9	11.9	11.9	11.9	11.9	0.1
㉟	11.9	11.9	0.1	0	0.1	11.8
IC110 ㉟	2.3	2.4	2.2	2.2	2.0	2.2
㉟	7.2	7.2	7.2	7.2	8.3	7.2
㉟	5.8	5.8	5.8	5.8	6.2	5.8
㉟	11.9	11.9	11.9	11.9	7.8	11.9
㉟	0	7.9	7.9	7.9	7.8	7.9
㉟	3.7	3.7	3.5	3.5	3.5	3.6
IC111 ㉟	0.3	0.3	0.3	0.3	0	0.3
㉟	0.2	0	0.1	0.1	0.1	0.1
㉟	0	5.0	5.0	5.0	0	5.0
㉟	5.0	5.0	5.0	5.0	0	5.0
IC402 ㉟	3.1	3.9	2.9	3.0	3.0	3.6
㉟	0	2.3	2.3	0	2.2	2.2
㉟	2.9	2.9	0	2.9	2.9	2.9
IC403 ㉟	0.8	0.8	0.8	0.8	0.8	0
㉟	1.2	1.2	0.8	0.8	1.2	0.9
㉟	1.4	1.3	0.9	0.9	1.3	0
㉟	0.8	0.8	0.9	0.9	0.8	1.4
㉟	0.6	0.5	0.6	0.6	0	0.6
㉟	0.5	0.6	0.6	0.6	0.6	0
㉟	1.0	1.0	1.0	1.0	0.8	1.1
㉟	1.6	1.5	1.1	1.1	1.4	1.6
㉟	1.4	1.4	1.0	1.0	1.2	1.5
㉟	0.9	1.0	1.0	1.0	0.8	1.1
㉟	0.6	0.6	0.6	0.6	0	0.6
IC404 ㉟	3.0	3.0	3.0	3.0	4.5	0
㉟	4.9	4.9	4.9	4.9	4.7	6.1
㉟	5.6	5.6	5.6	5.6	5.6	5.8
㉟	5.6	5.6	5.6	5.6	5.6	5.8
㉟	0	0.1	0	0	0	4.4
㉟	3.8	4.0	4.1	4.2	4.0	3.6
㉟	7.1	6.6	8.0	8.0	7.7	7.9
㉟	1.4	1.3	1.2	1.1	1.2	1.4
㉟	7.0	7.3	8.1	7.8	7.8	7.8
㉟	1.4	1.3	1.2	1.1	1.2	1.5
㉟	7.8	7.8	7.7	7.8	8.0	7.7
㉟	6.9	7.1	7.8	7.7	7.6	7.6
IC405 ㉟	1.6	1.5	1.1	1.3	1.4	1.6
㉟	1.4	1.4	0.9	0	1.2	1.5
㉟	1.2	1.2	0.9	0	1.1	1.2
㉟	1.4	1.3	1.0	0	1.2	1.4
㉟	1.3	1.3	1.0	0	1.2	1.4
㉟	0.5	0.5	0.6	1.0	0.3	0.2
㉟	0.5	0.5	0.6	1.3	0.3	0.2
㉟	1.2	1.2	0.8	1.1	1.2	1.3
㉟	1.4	1.3	0.9	1.3	1.3	1.4
㉟	1.2	1.2	0.8	1.2	1.2	1.3
㉟	1.4	1.3	1.0	1.3	1.2	1.5
IC406 ㉟	4.8	5.1	4.8	4.8	4.8	5.1
㉟	0.8	0	0.9	0.9	0.8	1.0
㉟	1.0	0.9	1.0	1.0	0.8	1.1
㉟	1.0	1.0	1.1	1.1	0.8	1.1
㉟	5.1	5.1	4.9	4.9	4.9	5.1
IC407 ㉟	1.2	1.2	0.9	1.2	1.2	1.3
㉟	0.4	-0.1	0.5	0.3	0.4	0.5
㉟	1.4	1.3	1.0	1.3	1.2	1.4
㉟	0.6	0	0.7	0.5	0.5	0.7
㉟	2.0	1.8	2.0	2.0	2.0	2.0
㉟	11.7	10.7	11.6	11.3		

A BOARD (2/3) * MARK

	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	ANALOG RGB
IC301 ①	2.8	0	2.8	3.0	3.0	2.3
②	2.0	0	1.8	1.7	1.7	3.5
IC302 ①	2.9	2.9	2.9	0.3	2.9	2.9
⑤	5.3	5.1	4.5	4.5	4.5	4.5
⑦	10.5	8.4	0	0	0	0
IC303 ⑧	2.3	2.6	2.2	2.2	2.6	2.8
⑨	0.1	4.2	0.6	0.6	0.6	0.1
⑩	3.9	2.8	3.1	3.1	3.3	3.9
IC304 ⑪	2.2	2.6	2.2	2.2	2.2	2.2
⑫	9.4	0.1	9.4	9.4	9.4	9.4
⑬	7.3	7.3	2.5	2.5	2.6	2.5
⑭	7.3	7.3	2.5	2.6	2.6	2.5
⑮	1.9	1.9	2.2	2.2	2.2	2.2
⑯	2.5	2.5	2.2	2.2	2.3	2.2
IC305 ⑰	2.8	2.8	2.8	0	2.8	2.8
⑱	2.5	1.1	2.5	2.4	2.4	1.3
⑲	4.1	4.1	4.1	4.1	4.2	4.5
⑳	0.4	0.2	0	0	0	0.1
㉑	2.6	2.6	2.5	2.4	2.5	2.7
㉒	0	0	0.8	0.8	0.9	0.9
㉓	2.1	2.7	1.9	1.9	1.9	2.7
IC306 ㉔	8.1	8.1	8.1	8.1	8.1	0
㉕	0	0	0	0.1	0.1	4.4
IC309 ㉖	3.6	0	3.6	3.6	3.6	3.6
㉗	0	0	0	0	0	4.4
IC310 ㉘	6.2	6.2	6.2	6.2	6.2	5.9
㉙	6.3	6.3	6.2	6.2	6.2	5.9
㉚	5.9	5.9	6.0	6.3	5.9	5.9
IC311 ㉛	0	6.2	6.2	6.2	6.2	6.2
㉜	6.2	6.2	6.2	6.2	6.2	5.9
㉝	6.2	6.3	6.3	6.2	6.2	5.9
㉞	3.3	3.3	2.9	2.9	2.9	0
㉟	5.9	5.9	5.9	6.2	5.8	5.9
㉟	0.4	0.4	0.4	0.4	0.5	0.7
IC312 ㉟	3.6	0	3.6	3.6	3.6	3.6
㉟	0	0	0	12.0	0.1	4.5
IC313 ㉟	0	6.3	0	6.3	6.3	6.3
㉟	0	3.0	7.6	0	3.0	0
㉟	0	0	0	0	2.9	0.1
IC315 ㉟	0.4	0.4	0.4	0.4	0.4	0.6
㉟	0.6	0	0.6	0.6	0.6	0.6
㉟	9.4	9.3	9.3	9.2	9.3	9.4
㉟	2.5	2.5	2.5	2.5	2.5	7.2
㉟	0.4	0.4	0.4	0.4	0.4	0.6
㉟	0.4	0.4	0.4	0.4	0.4	0.6
IC317 ㉟	2.0	0	2.0	2.1	2.0	12.0
㉟	12.0	0	12.0	12.0	12.0	12.0
㉟	10.7	10.6	10.6	10.6	10.5	10.7
㉟	9.4	9.4	9.4	9.4	9.1	9.4
IC318 ㉟	11.5	11.5	0	11.4	11.4	11.4
IC320 ㉟	6.3	6.3	6.3	6.3	6.3	0
㉟	3.0	0	0	3.1	0	0
㉟	0	0	0	0	3.3	0
IC321 ㉟	0	0.1	0.1	0	2.9	0
㉟	0	0	0	0	0.1	2.7
IC322 ㉟	5.8	5.9	6.0	6.3	5.9	5.9
IC323 ㉟	6.2	6.3	6.2	6.2	6.2	5.9
㉟	0	5.6	5.6	5.6	5.6	5.6
IC324 ㉟	6.2	6.2	6.2	6.2	6.2	5.9
IC326 ㉟	5.9	5.9	6.0	6.3	5.9	5.9
㉟	5.9	5.9	5.9	6.2	5.8	5.9
㉟	5.9	5.9	5.9	6.2	5.8	5.9
㉟	1.7	1.9	1.6	1.6	2.1	2.1
㉟	2.4	1.0	2.3	2.3	2.3	4.6
㉟	0	-0.1	10.8	0	-0.1	0
㉟	6.3	6.3	6.3	6.3	6.2	5.9
㉟	6.3	6.3	6.3	6.3	6.2	5.9
㉟	6.3	6.3	6.2	6.2	6.2	5.9

A BOARD WAVEFORMS

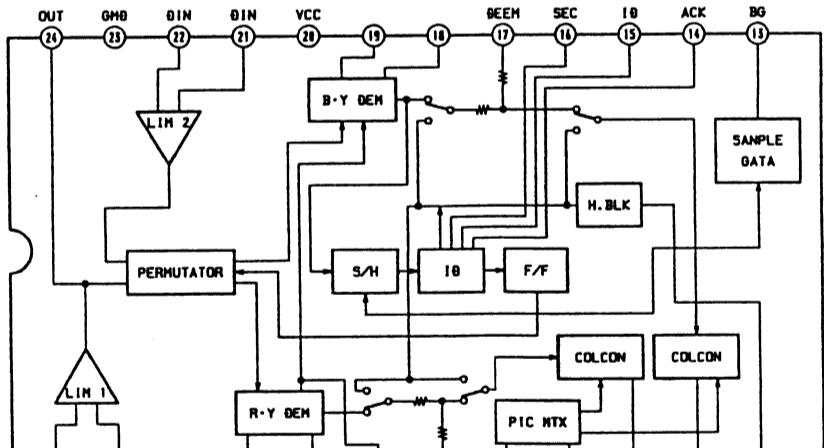


A BOARD (2/3) * MARK LIST

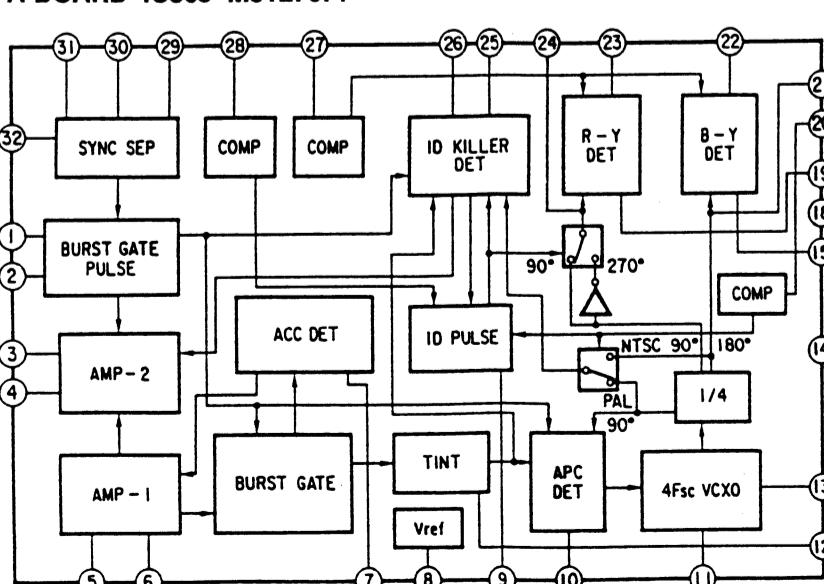
PVM-14M4U/E/A	PVM-14M2U/E/A
C525 0.011 2KV : PP	0.01 2KV : PP
C527 #	470P 2KV
C553 0.082 200V : PT	#
C1520 150P 2KV B	#
C1524 100	#
C1525 0.0047 2KV E	#
C1537 0.33 100V : MPS	#
CN508 2P WHT : MINI	#
D544 MA111	#
D545 MA111	#
D546 V11N	#
D548 RD16ESB2	#
Q526 2SC4686A	#
Q527 2SC4686A	#
Q531 2SA1037K	#
Q532 IRF520	#
R559 330k : CHIP	220k : CHIP
R562 47 1/4W : FPRD	#
R566 47k : RN-CP	27k : RN-CP
R574 47k : CHIP	#
R577 10k : CHIP	#
R581 1k : CHIP	#
R1501 12k : CHIP	10k : CHIP
R1539 100k : CHIP	#
R1542 22 : FPRD	#
R1580 47k : CHIP	#
R1581 10M 1W : RS	#
R1582 2M 1W : RS	#
R1583 470 1/2W : RF	#
R1599 10k 1/2W : RC	#
R2502 22k : CHIP	18k : CHIP
R2504 150k : CHIP	100k : CHIP
T501 1-453-233-11	1-453-232-11
T502 DFT	#

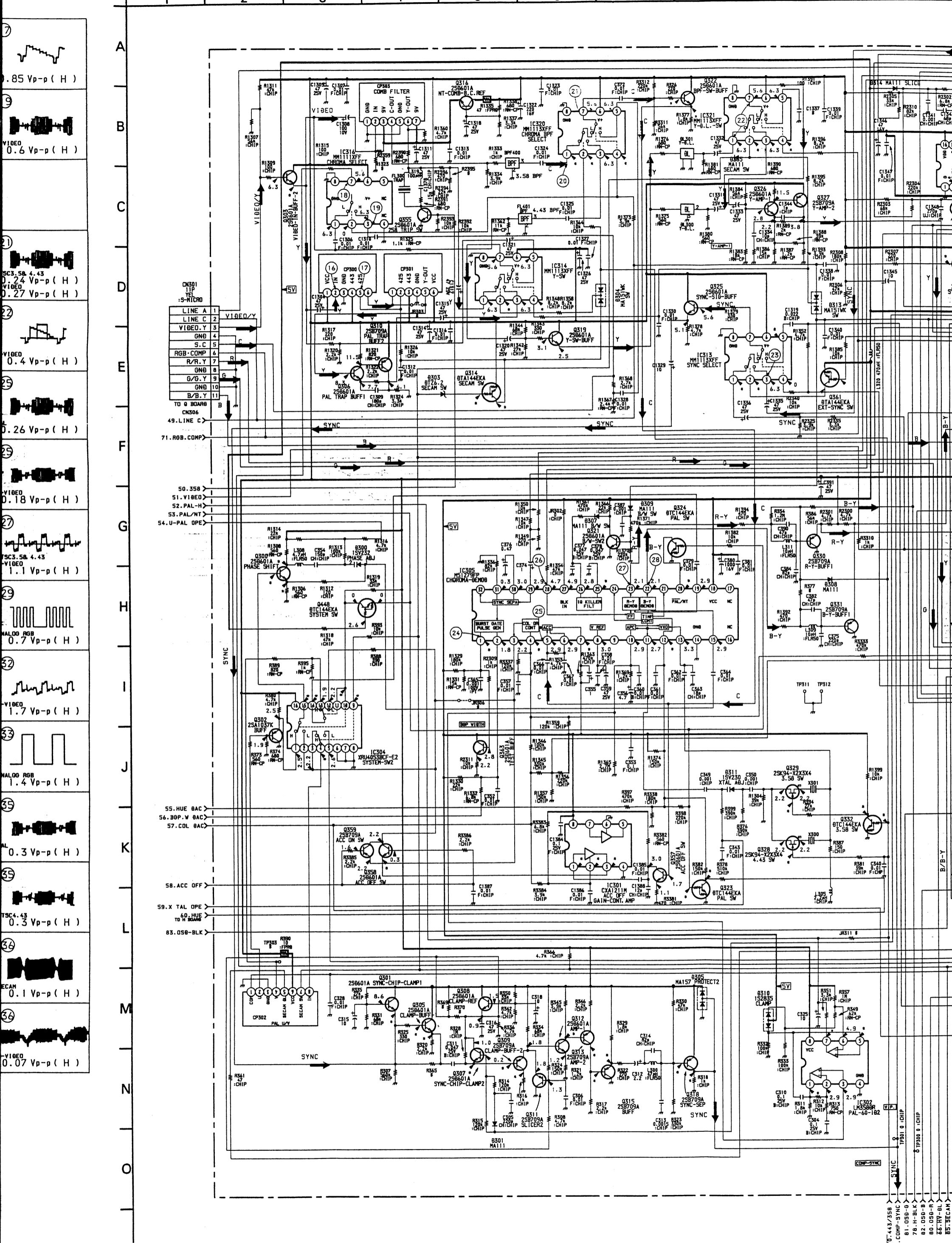
: Not Used

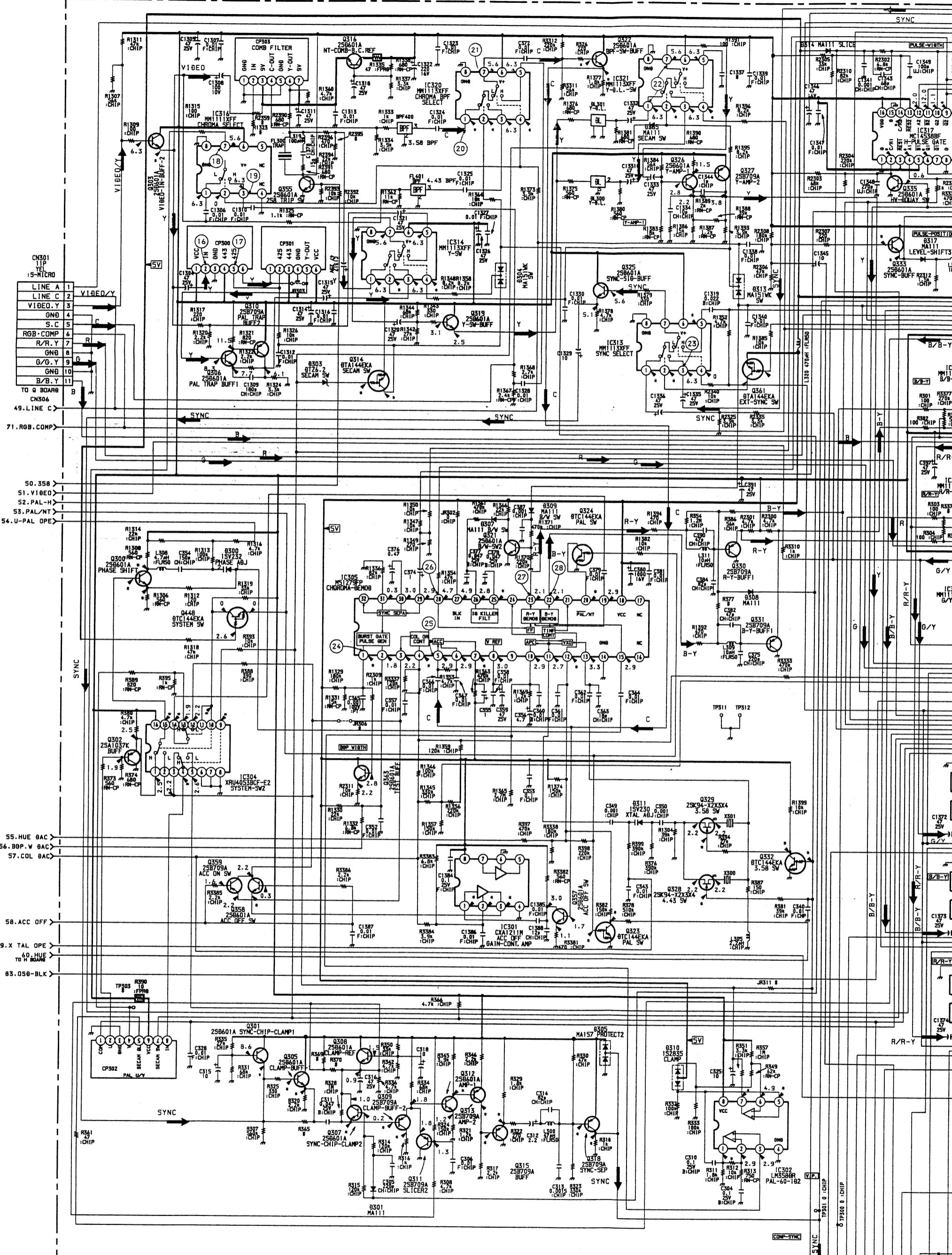
A BOARD IC303 CXA1214P

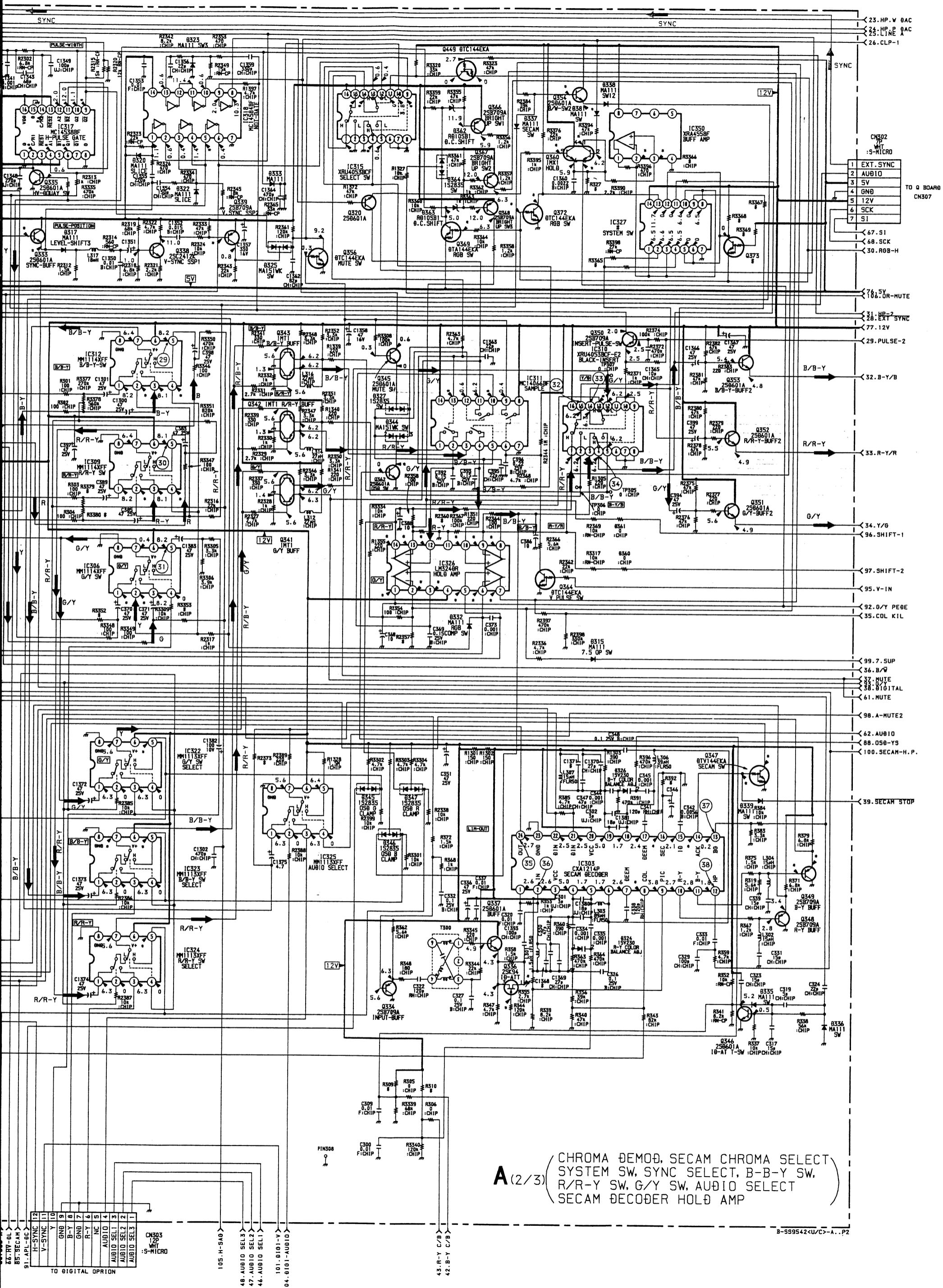


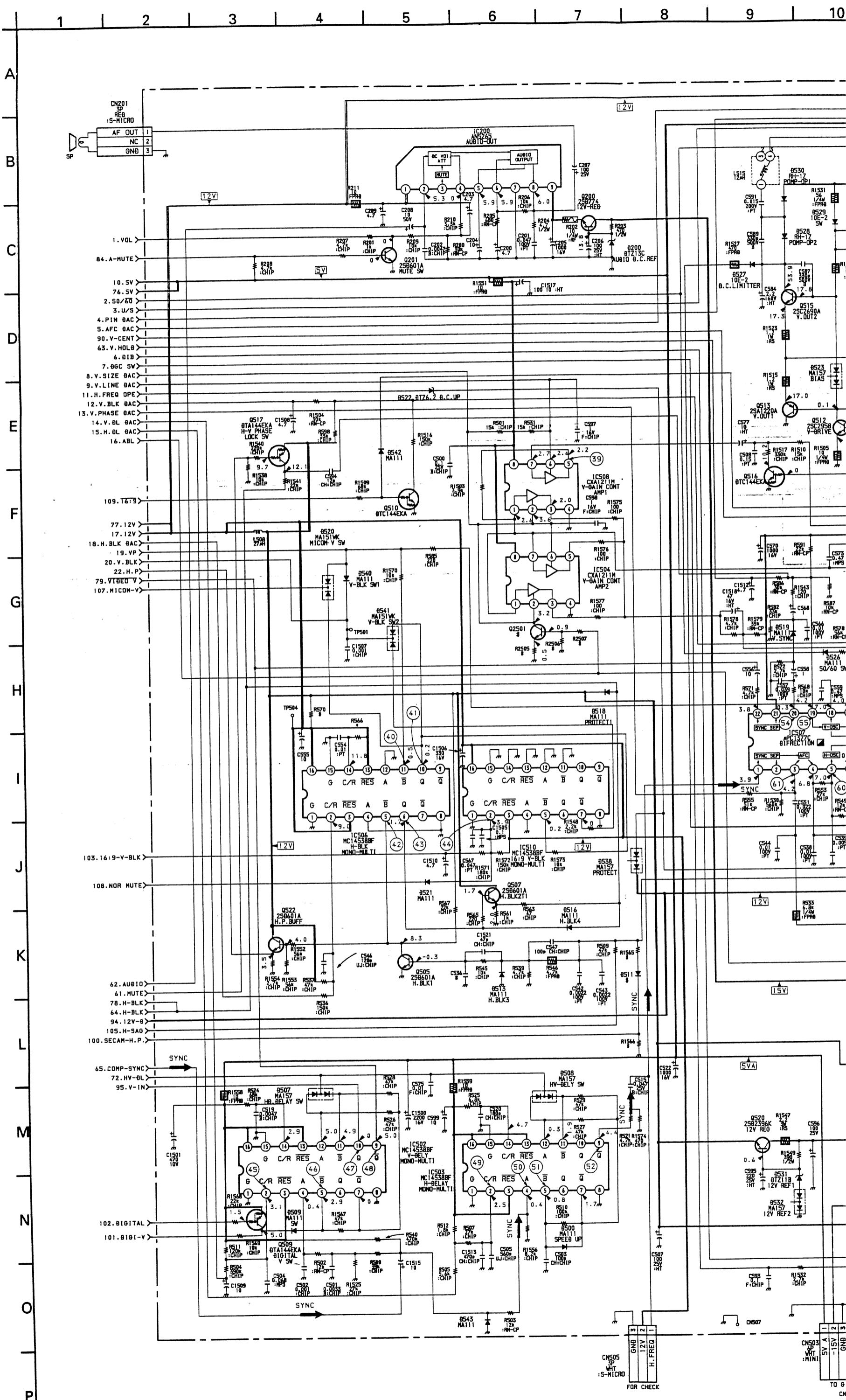
A BOARD IC305 M51279FP

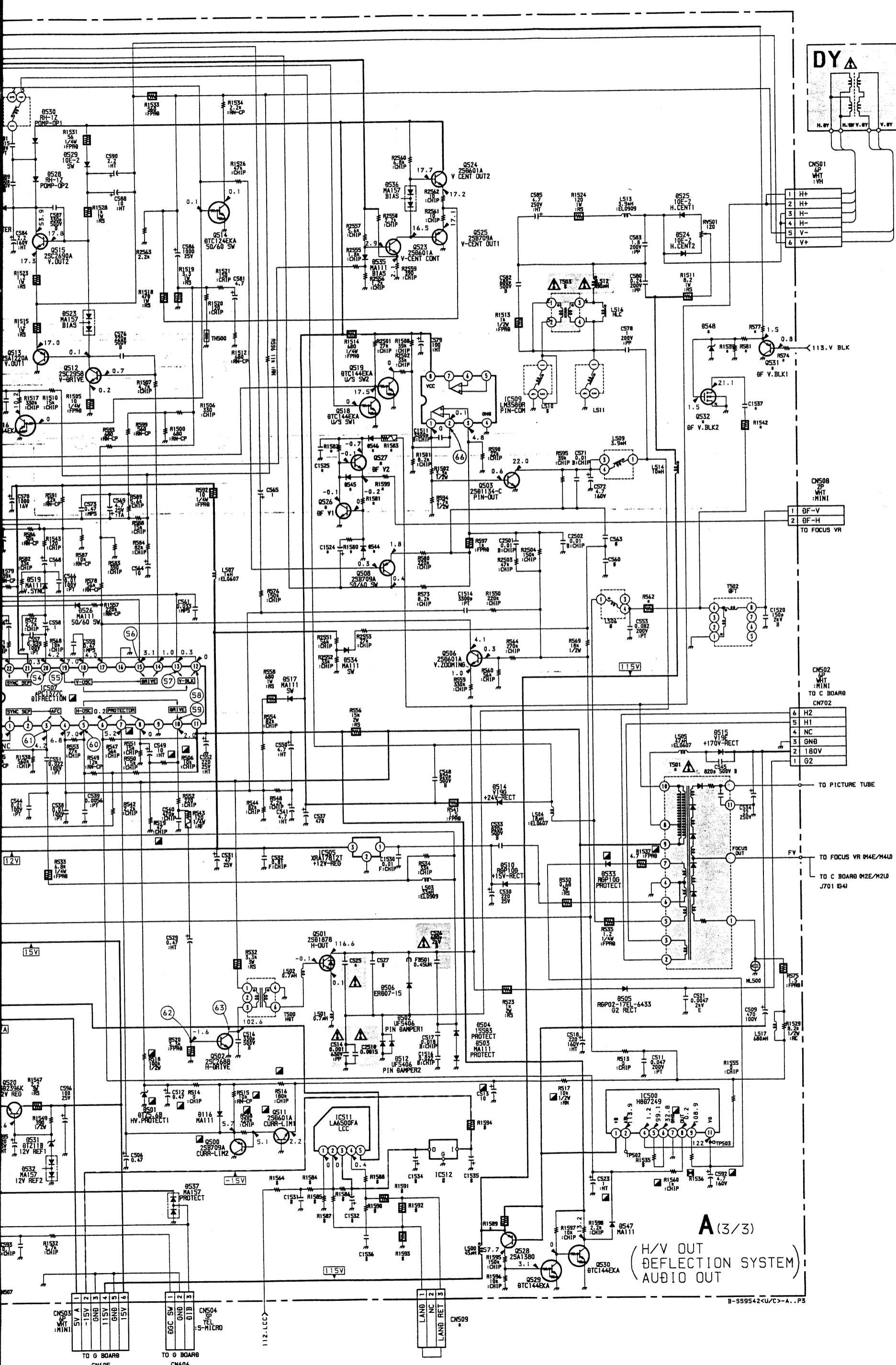












12

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14

15

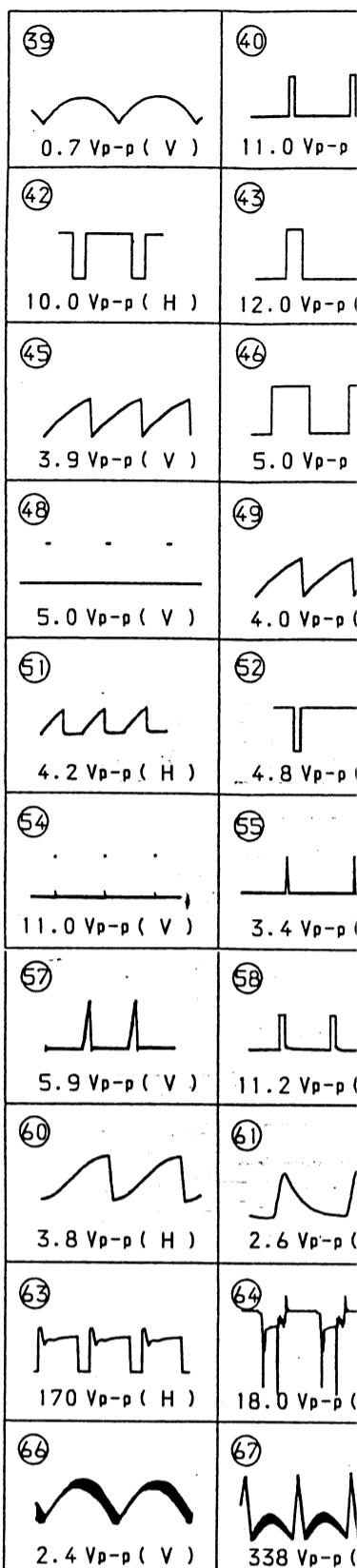
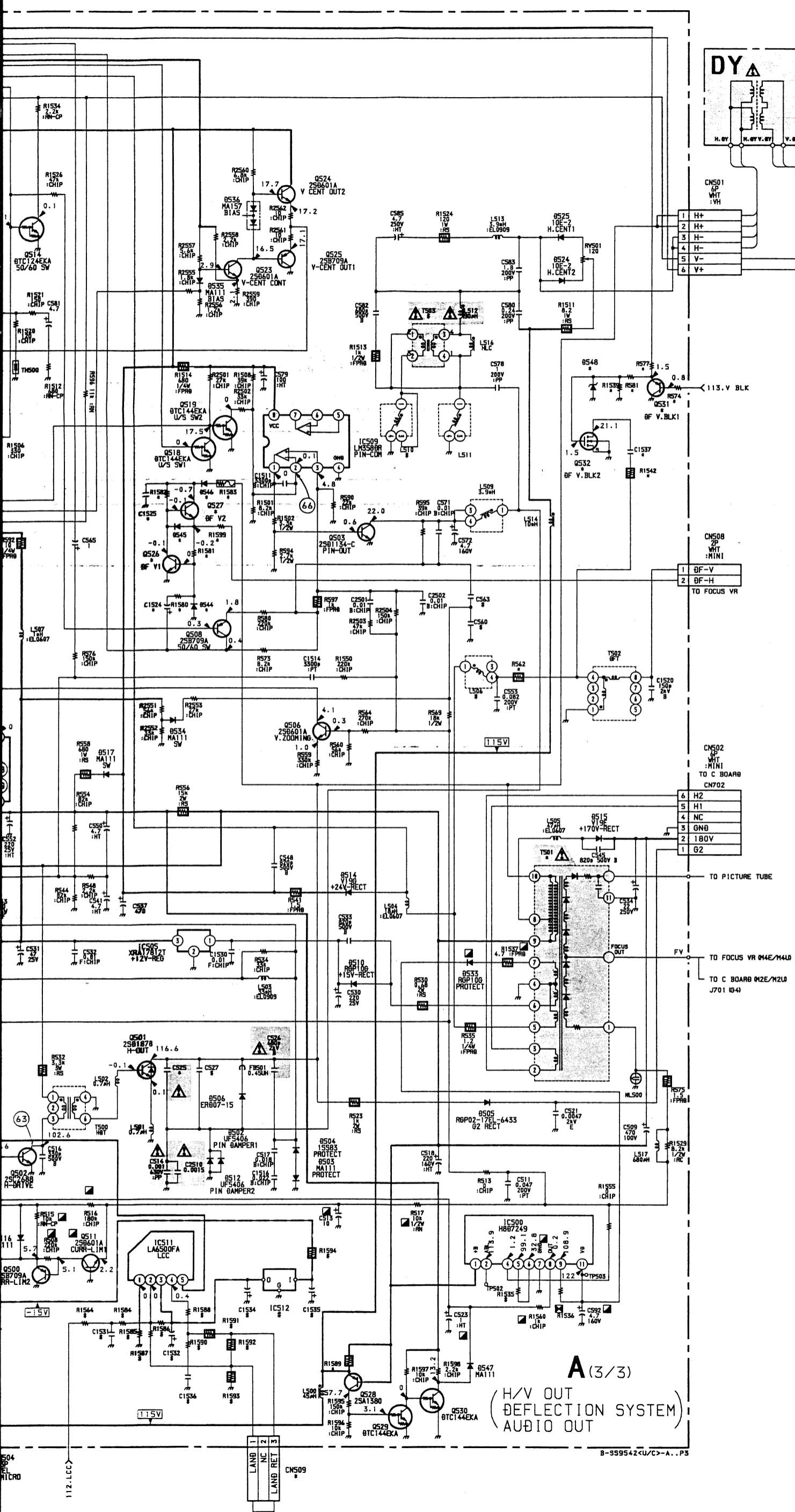
16

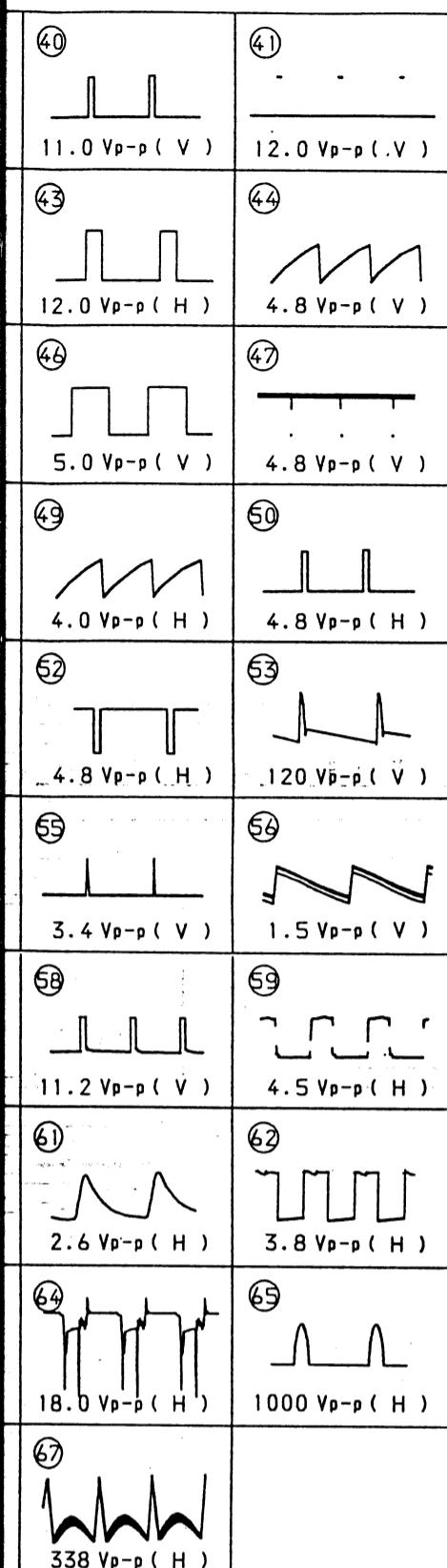
17

18

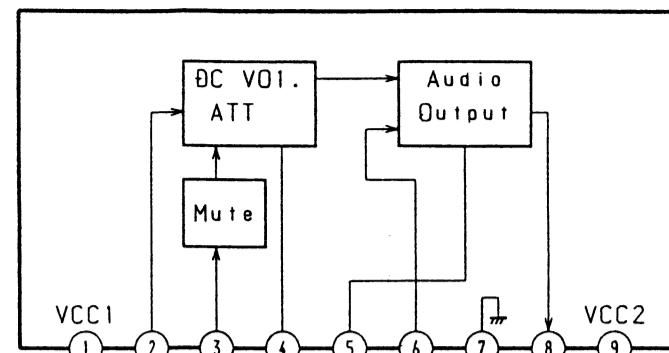
19

A BOARD WAVEFORMS

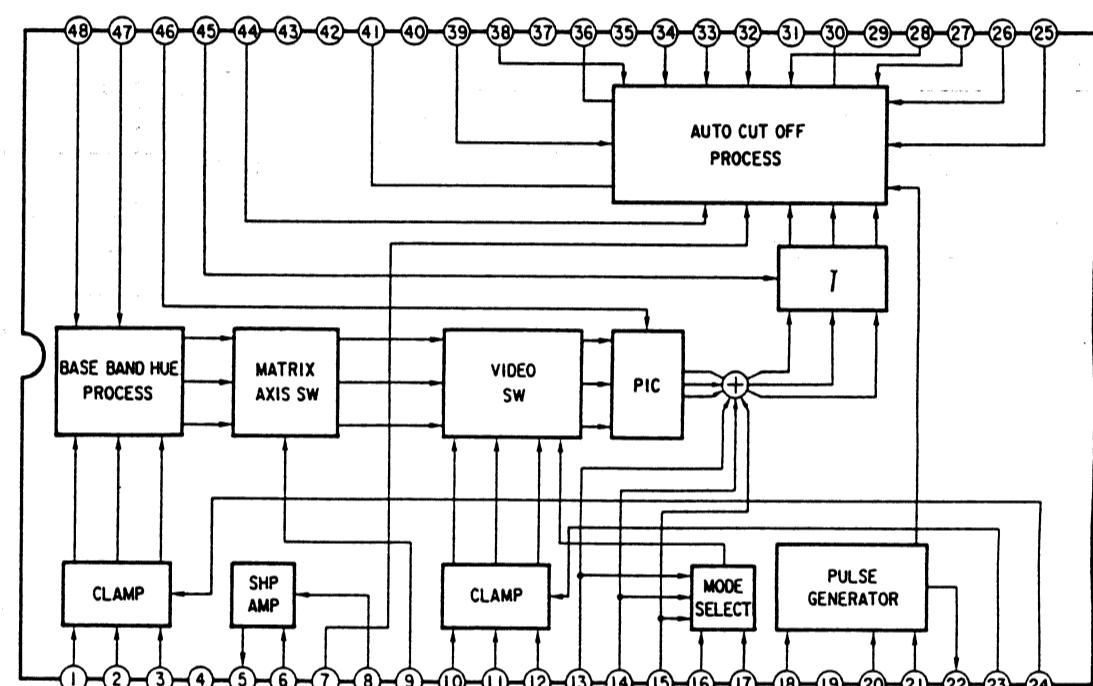




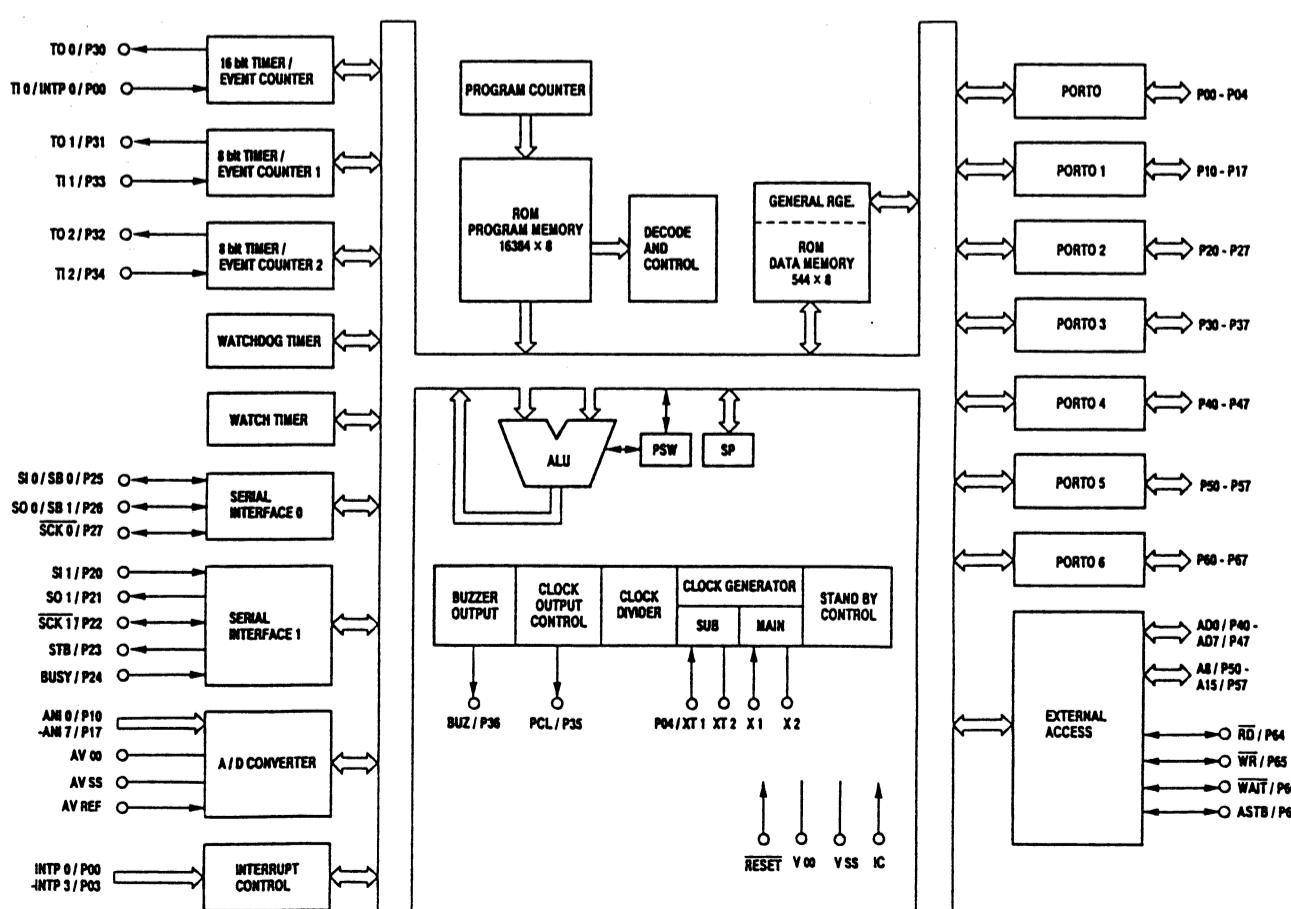
A BOARD IC200 AN5265



A BOARD IC404 CXA1739S



A BOARD IC101 μPD78013YCW



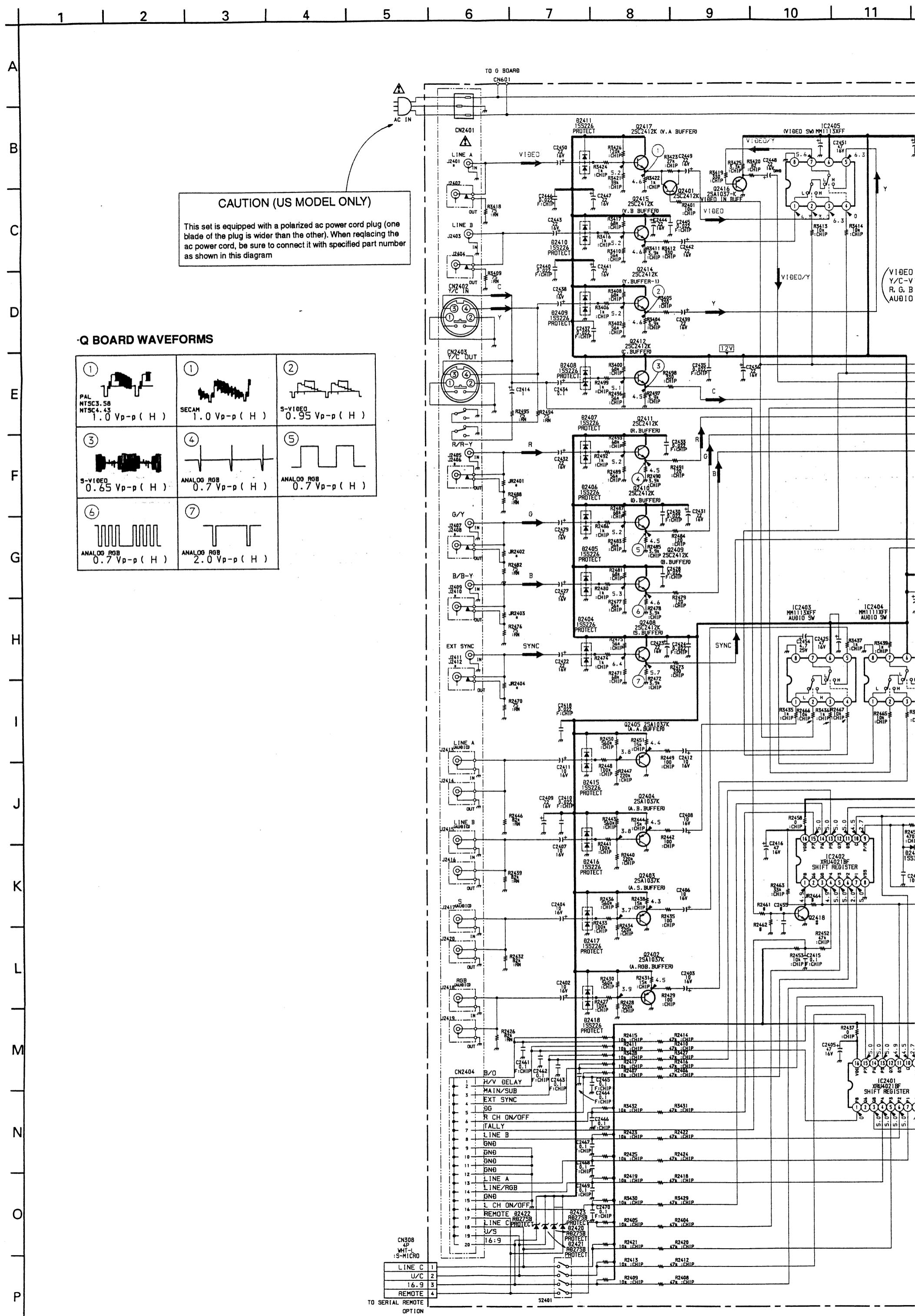
Schematic diagram

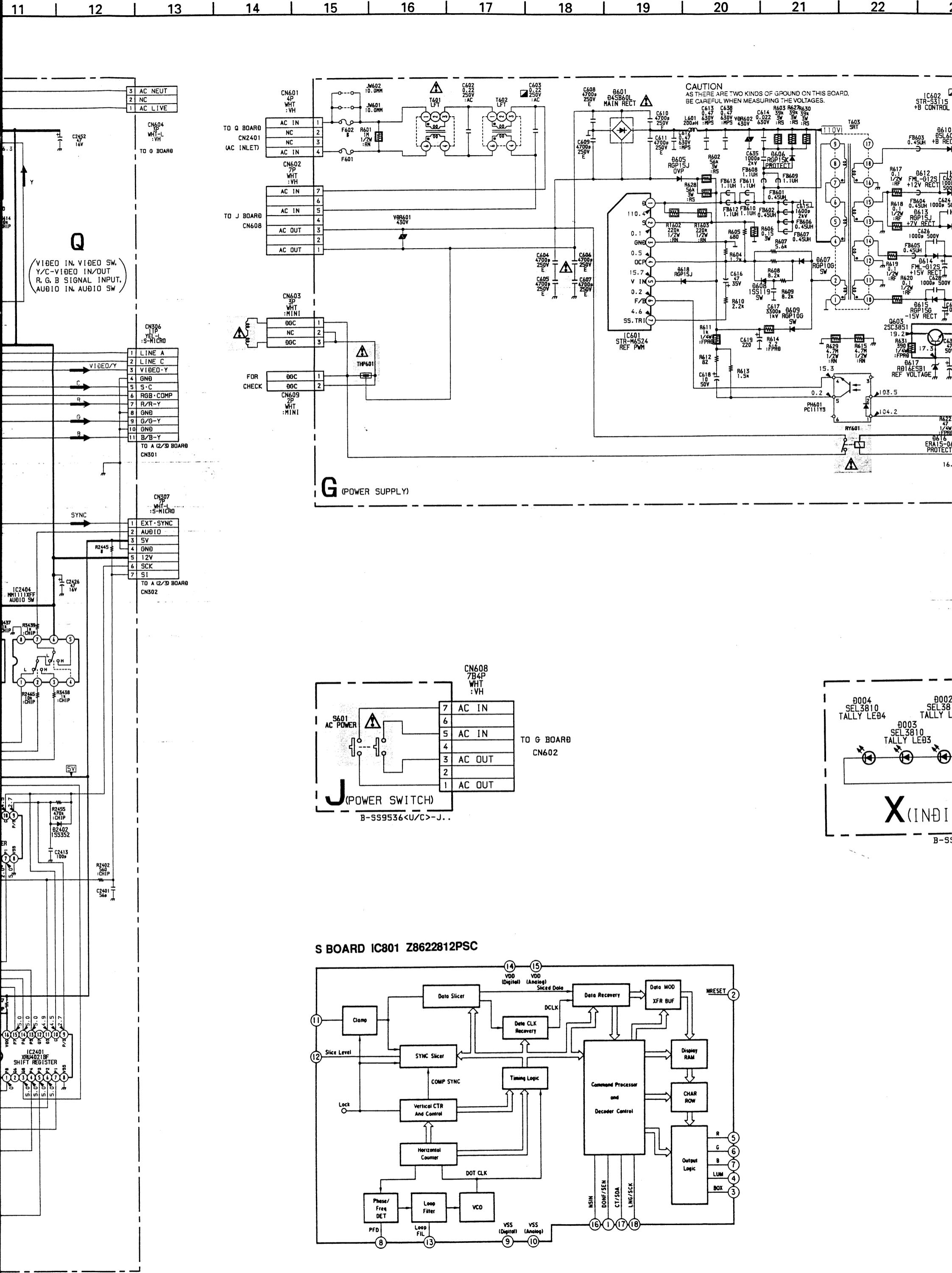
G H J

Q X S boards →

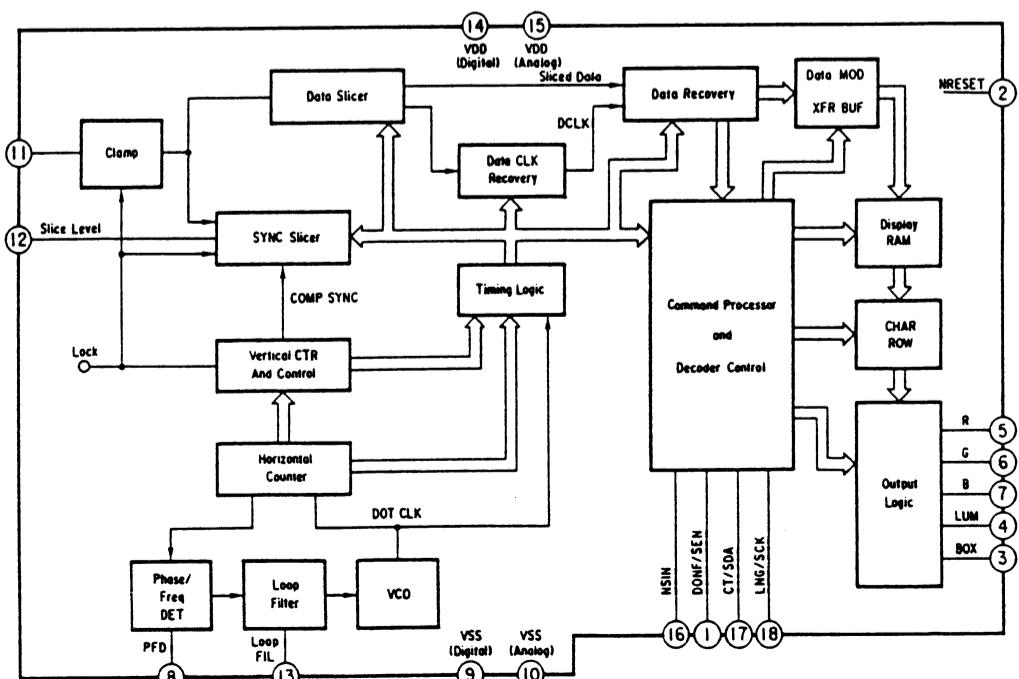
Schematic diagrams

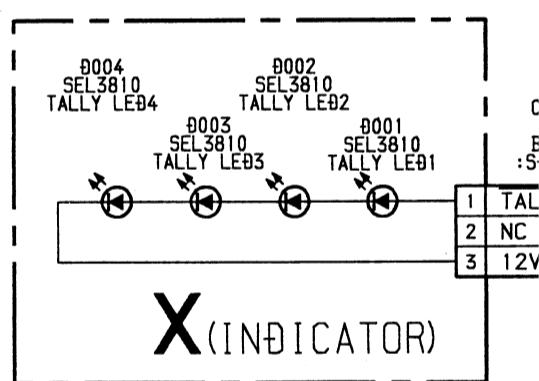
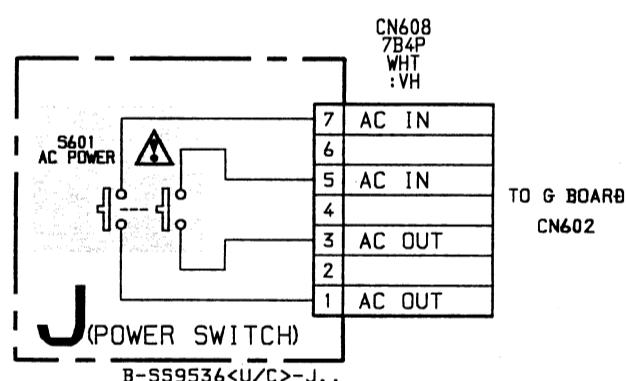
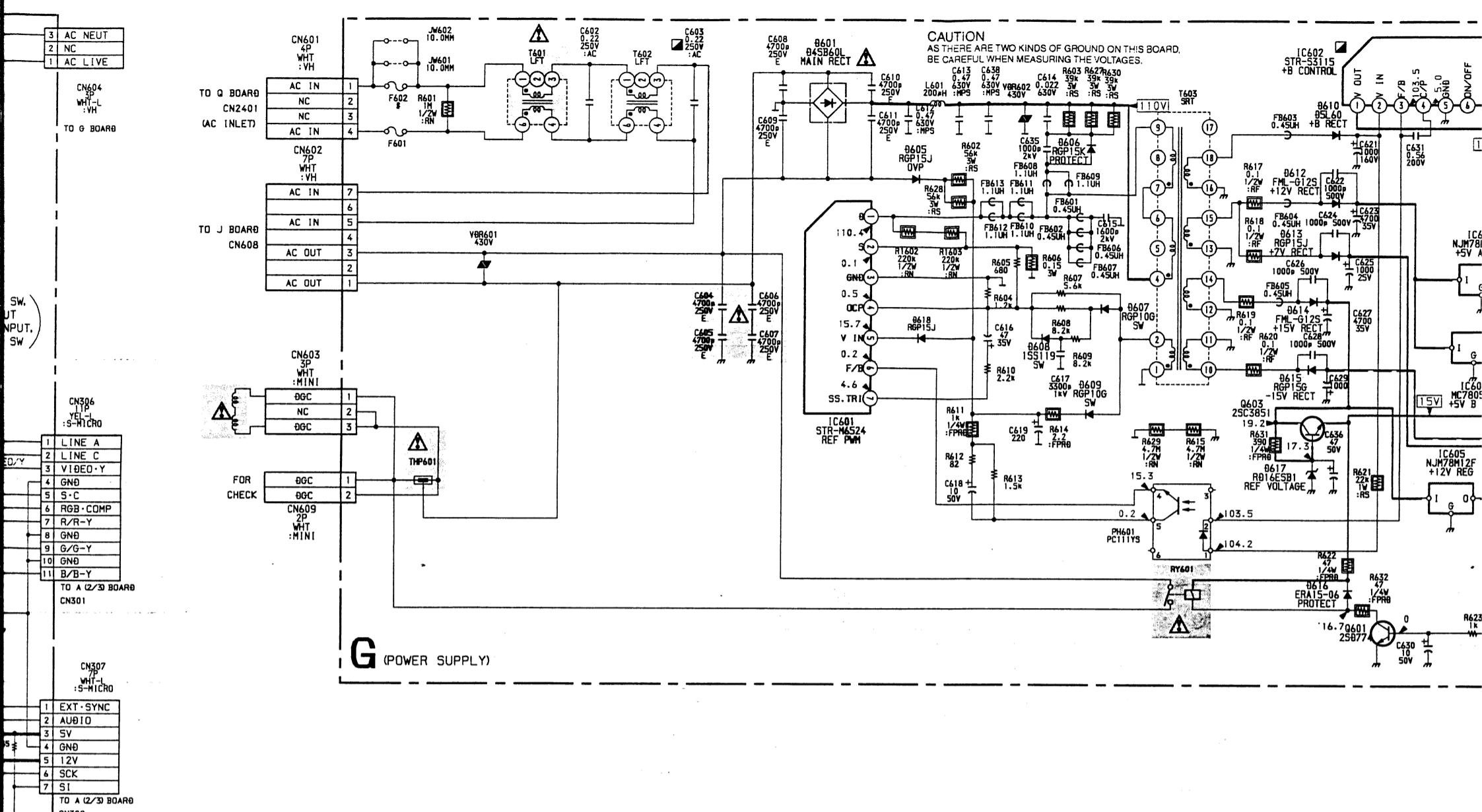
← A(3/3) board



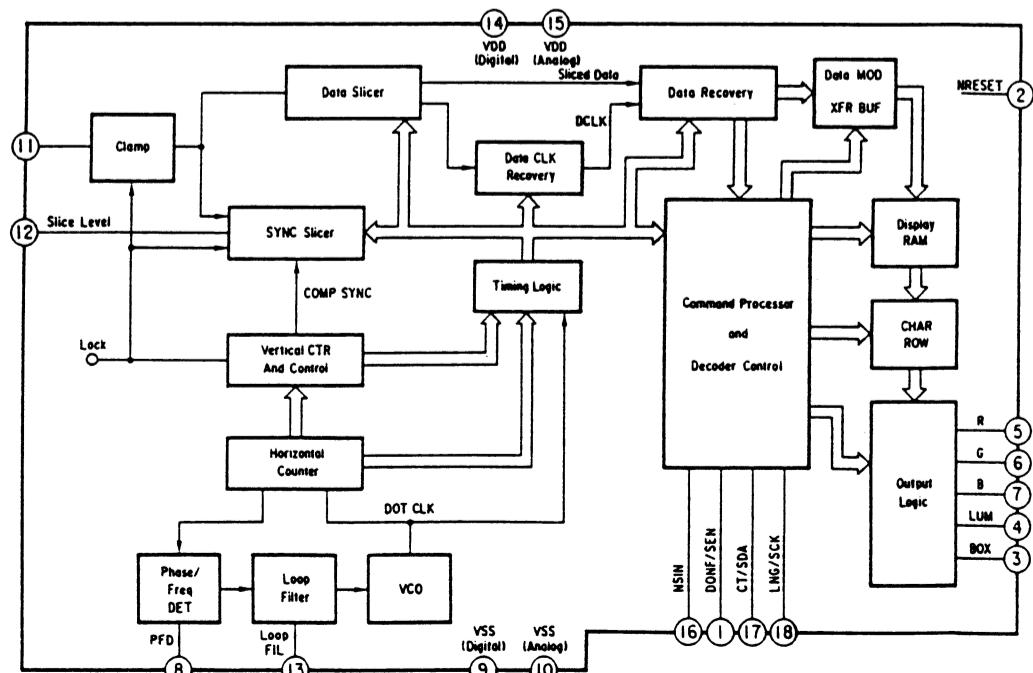


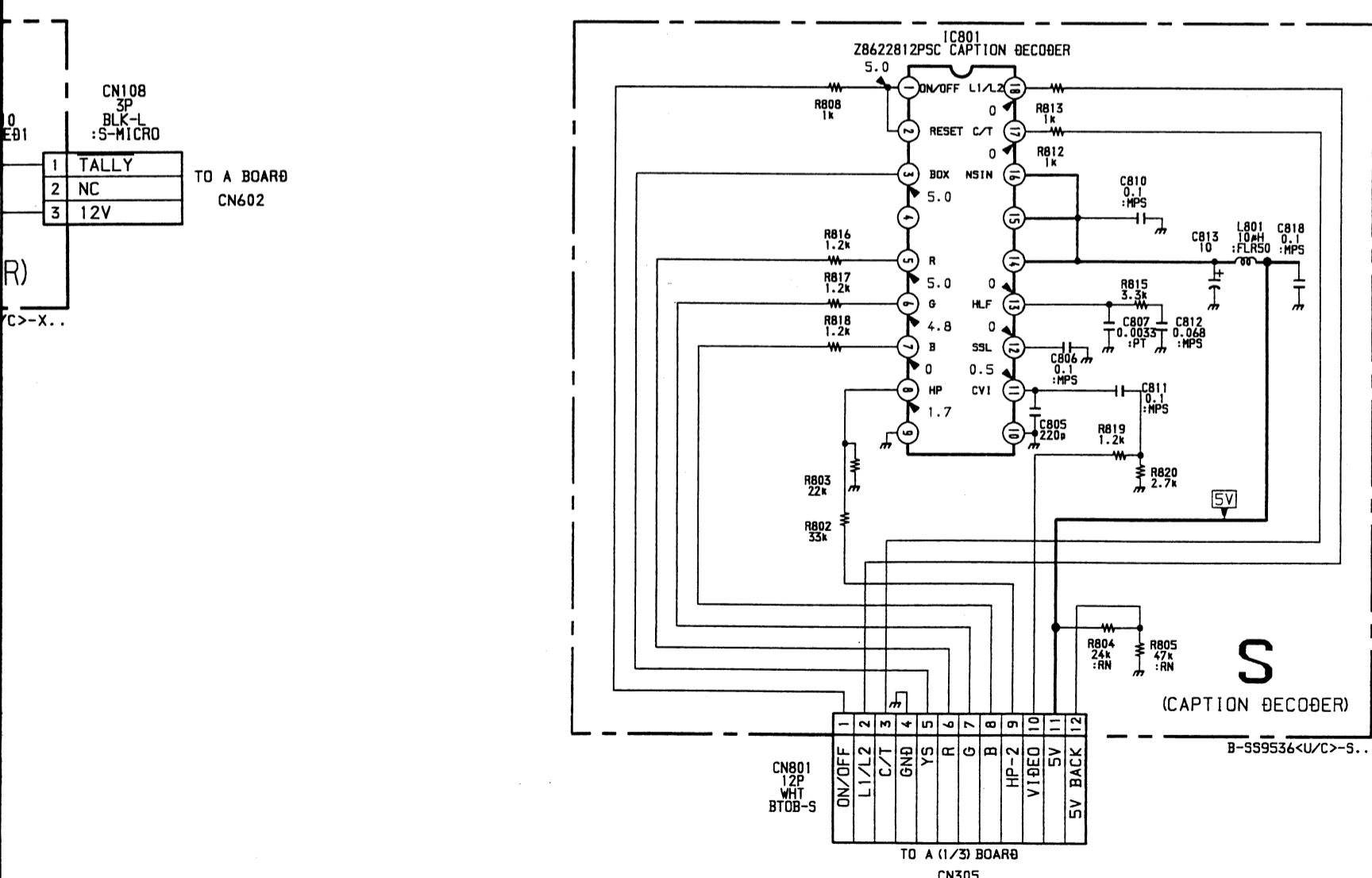
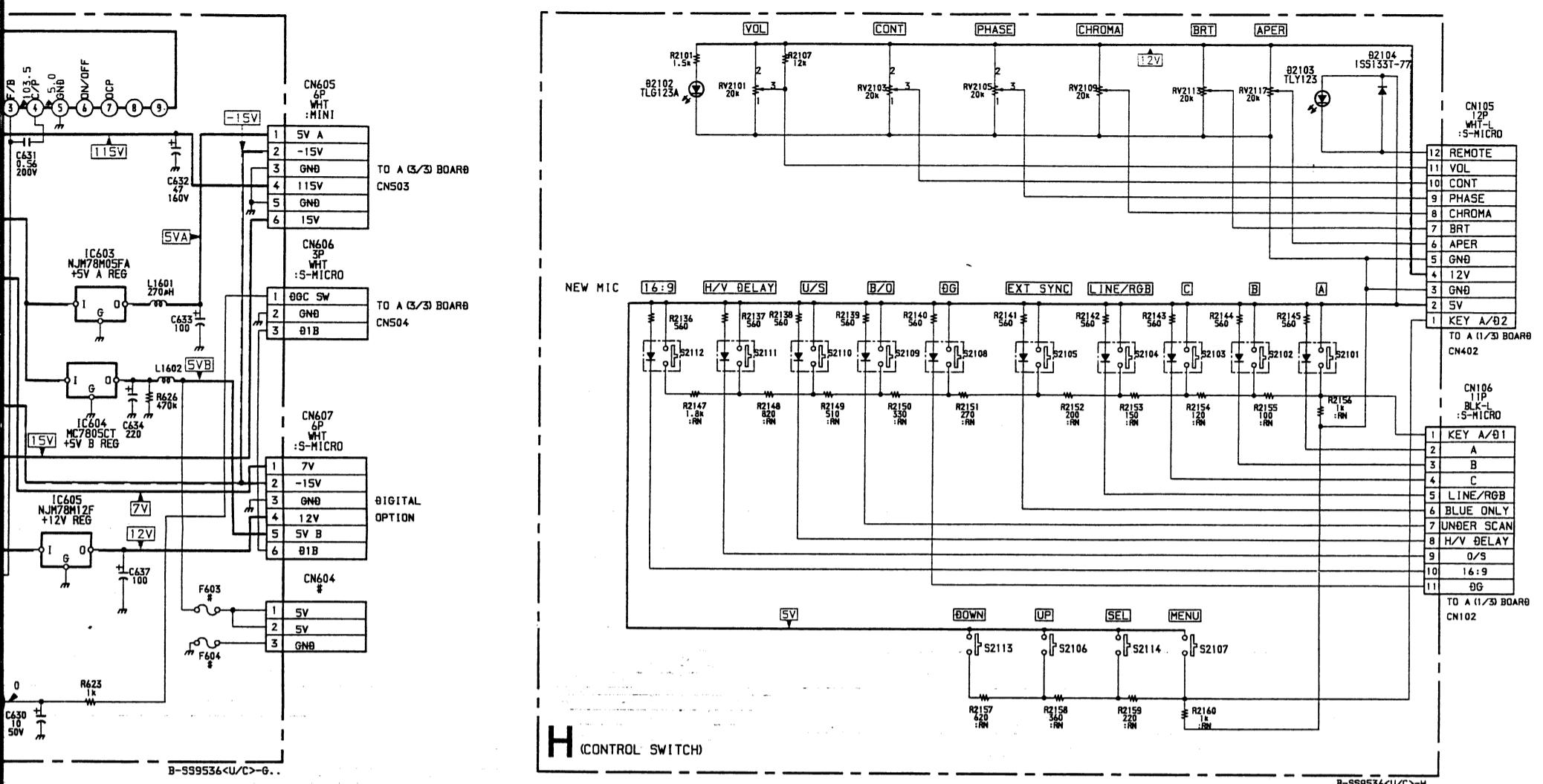
S BOARD IC801 Z8622812PSC





S BOARD IC801 Z8622812PSC

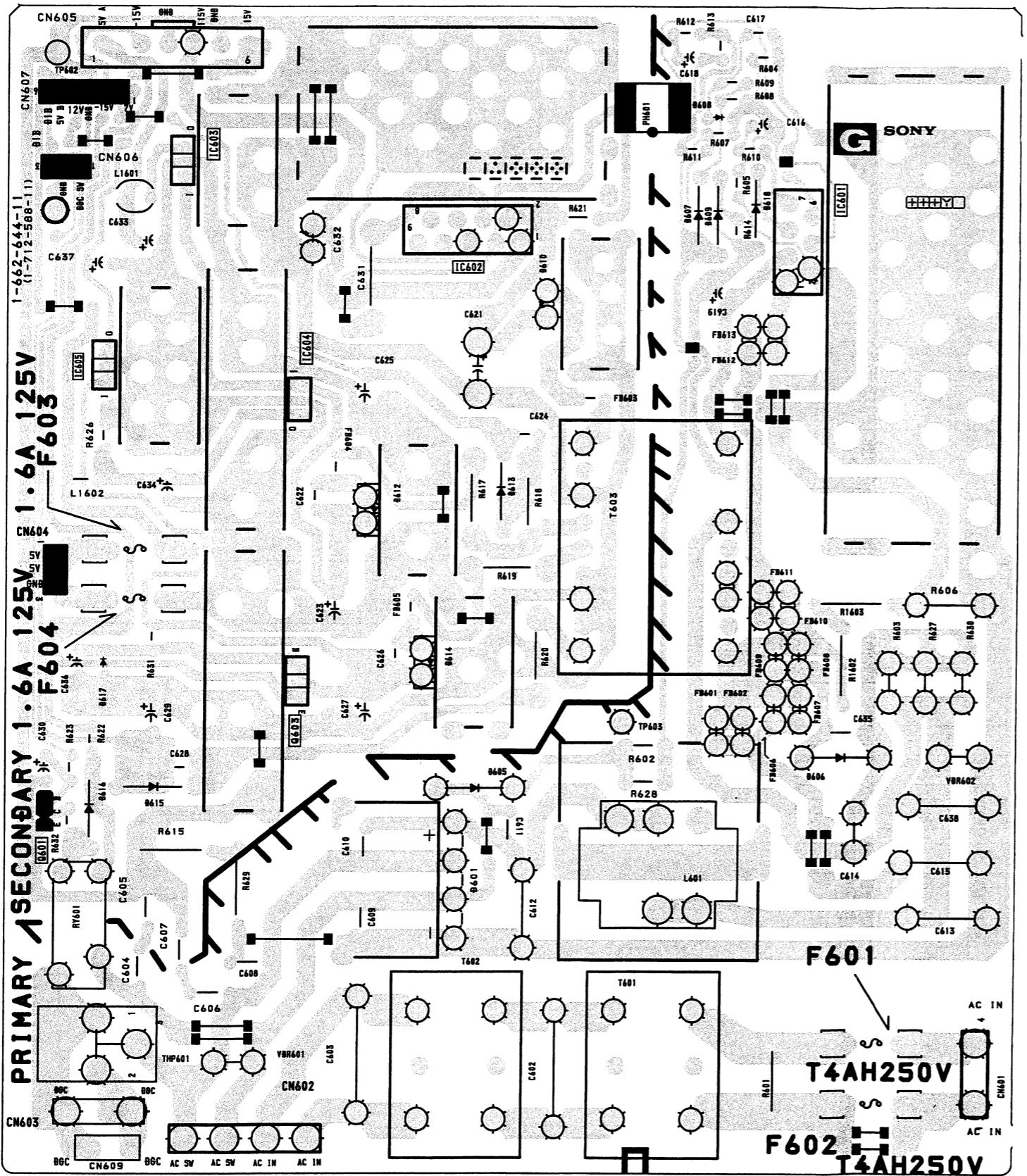




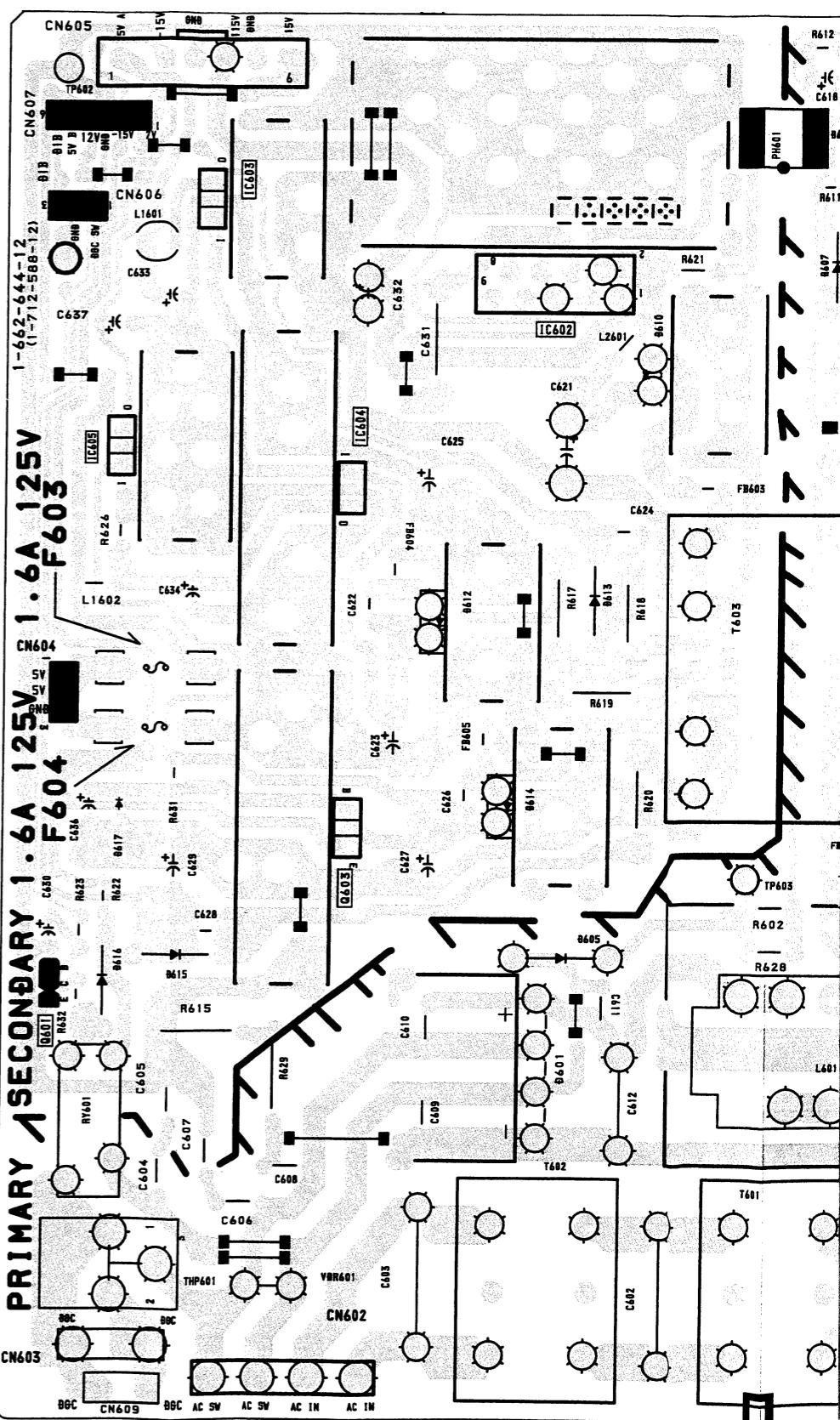
G

[POWER SUPPLY]

-G BOARD-



—G BOARD—



H [CONTROL SWITCH]

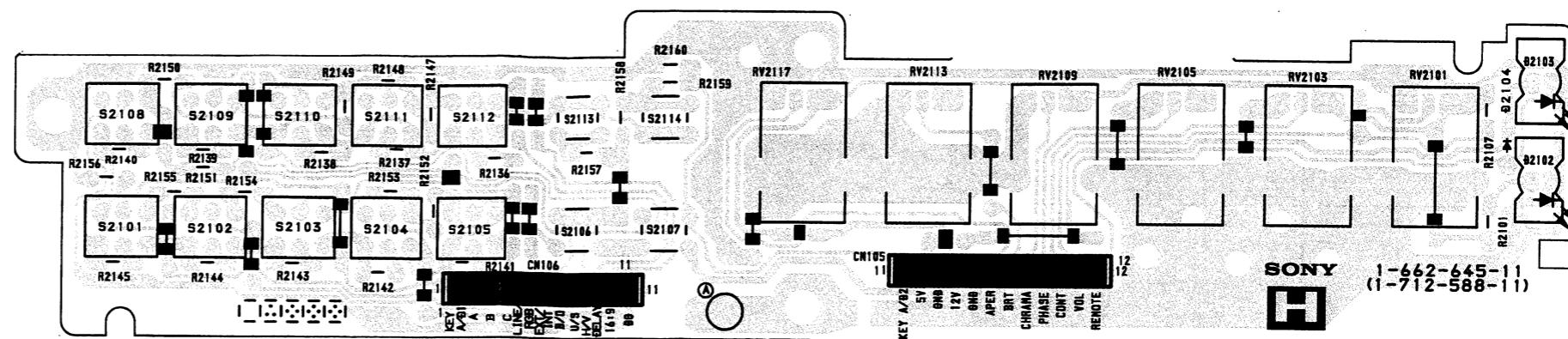
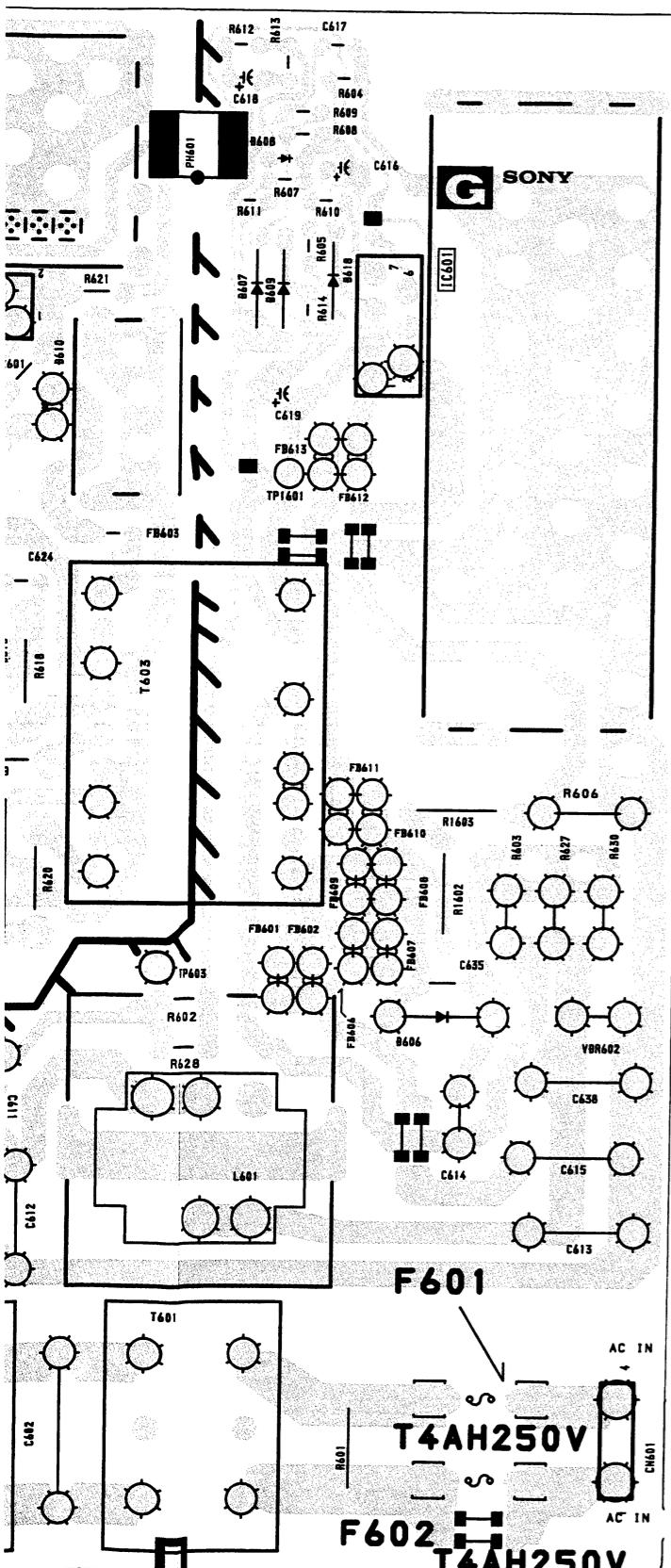
Q [VIDEO IN, VIDEO SW, Y/C-VIDEO IN/OUT,
R.G.B SIGNAL INPUT, AUDIO IN, AUDIO SW]

J [POWER SWITCH]

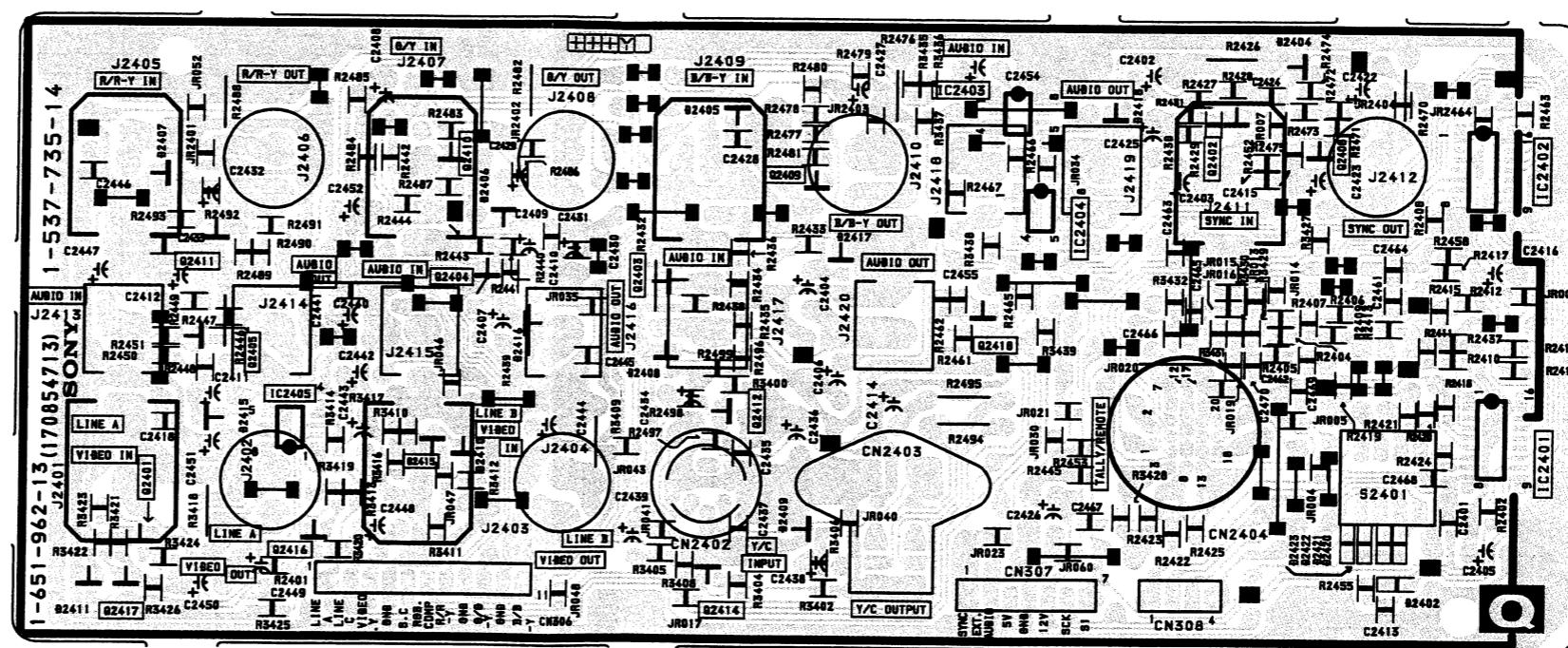
S [CAPTION DECODER]

[INDICATOR]

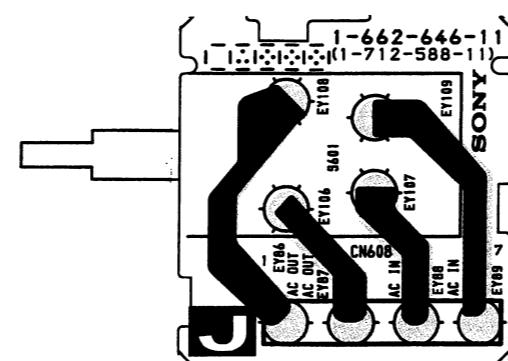
-H BOARD-



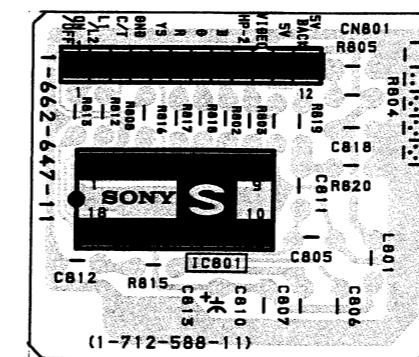
-Q BOARD-



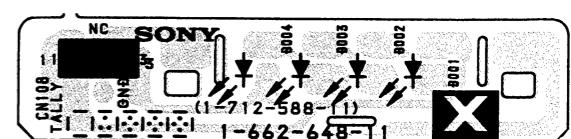
-J BOARD-



-S BOARD-
PVM-14M2U/14M4U ONLY

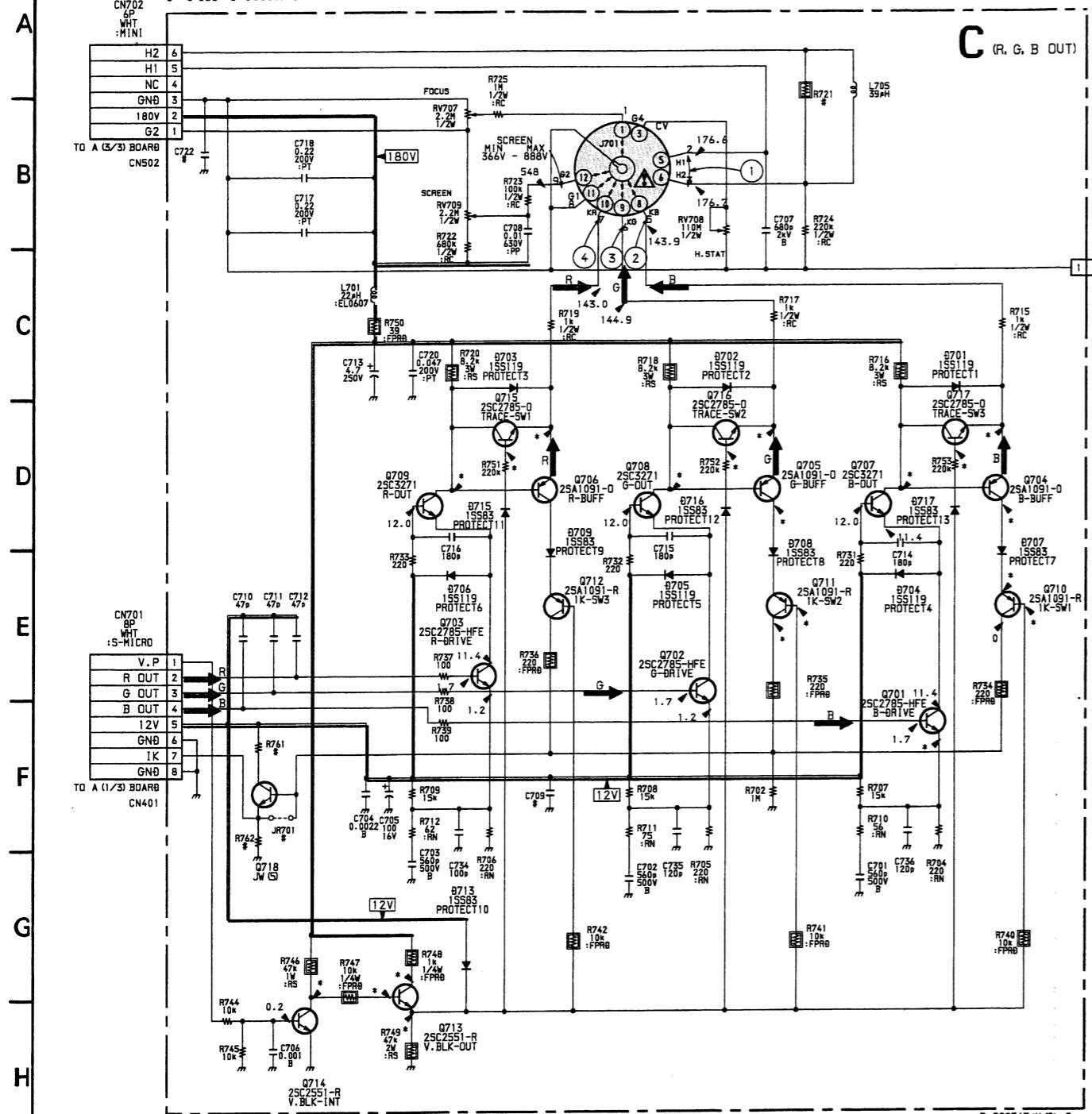


-X BOARD-



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16

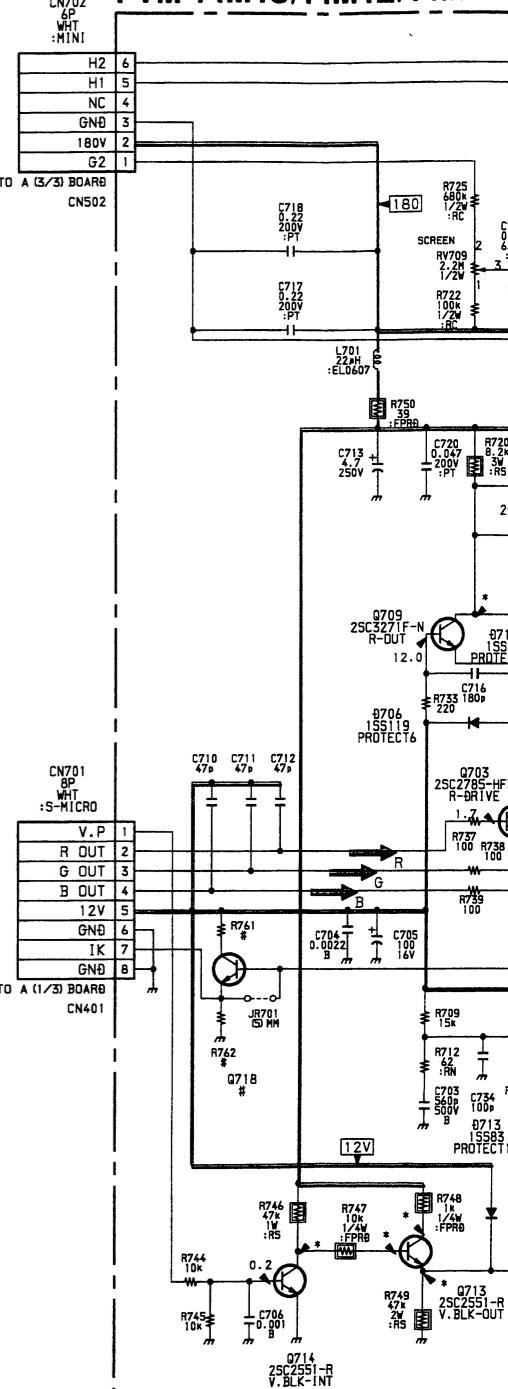
PVM-14M2U/14M2E/14M2A ONLY



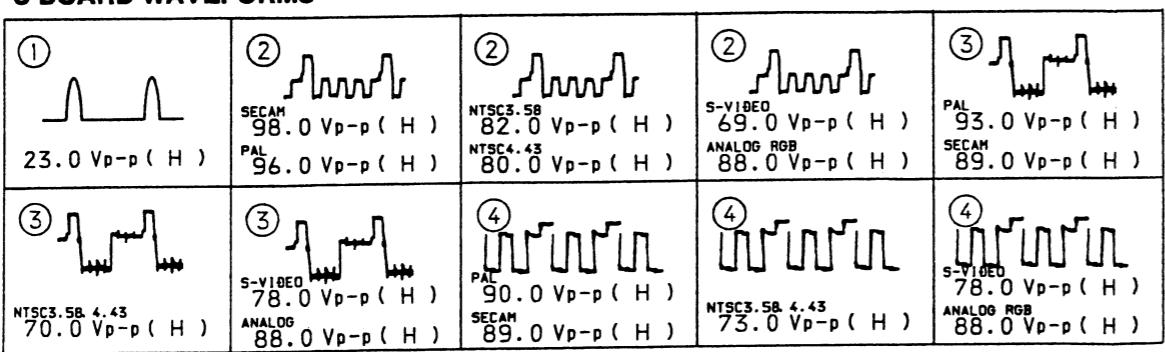
C BOARD * MARK LIST

	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	ANALOG RGB
D701 B	2.0	1.9	1.73	1.8	1.8	2.0
E	1.4	1.3	1.1	1.1	1.2	1.4
D702 B	2.0	1.9	1.7	1.7	1.8	2.0
E	1.5	1.3	1.1	1.1	1.2	1.4
D703 B	1.9	1.8	1.6	1.6	1.8	1.9
E	1.3	1.2	1.0	1.0	1.2	1.3
D704 B	143.6	148.0	153.9	153.4	144.9	143.8
C	129.0	134.3	135.4	134.5	31.2	111.5
E	139.7	144.4	150.3	149.6	140.4	140.1
D705 B	141.7	145.8	154.9	154.2	145.0	141.8
C	124.9	130.2	132.3	130.4	60.4	106.6
E	138.3	142.3	151.3	150.6	140.7	138.5
D706 B	149.7	151.5	160.4	159.8	144.9	148.6
C	134.5	138.3	141.2	141.1	103.2	114.7
E	146.2	148.0	157.1	156.4	140.8	145.0
D707 C	143.8	148.0	154.0	153.4	144.9	143.7
E	141.9	145.9	155.2	154.3	145.0	141.8
D708 C	149.8	151.5	160.6	159.9	144.9	148.5
D709 B	172.8	173.1	174.3	173.9	167.0	173.5
E	160.9	164.0	162.9	162.2	154.0	161.2
D710 B	172.8	173.2	174.3	173.9	167.0	173.5
C	160.6	161.0	162.3	161.8	154.1	161.3
E	161.6	163.6	164.1	164.8	154.5	161.4
D711 B	172.9	173.2	174.0	174.2	167.0	173.5
E	173.3	173.6	174.3	174.3	167.2	173.9
D712 B	172.8	173.2	173.9	173.9	166.8	173.5
C	184.2	184.5	184.7	184.6	176.6	183.8
E	173.3	173.6	174.3	174.3	167.2	173.9
D713 B	173.6	173.7	174.5	174.4	167.4	174.1
C	146.7	148.6	157.6	157.0	140.3	145.7
E	149.5	151.5	160.6	159.9	144.9	148.5
D714 C	146.1	148.0	157.2	156.5	140.7	145.0
E	146.1	148.0	157.2	156.5	140.7	145.0
D715 B	139.2	143.3	152.5	151.5	140.7	139.4
C	141.7	145.8	155.2	154.2	145.1	141.8
E	138.2	142.3	151.4	150.5	140.6	138.4
D716 B	140.9	145.4	151.7	150.8	140.6	141.2
C	143.6	148.0	154.1	153.4	144.9	143.8
E	139.8	144.4	150.5	149.6	140.4	140.0

PVM-14M4U/14M4E/14M4A

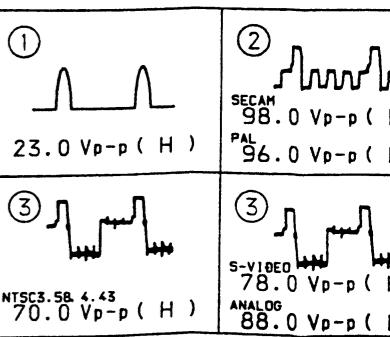


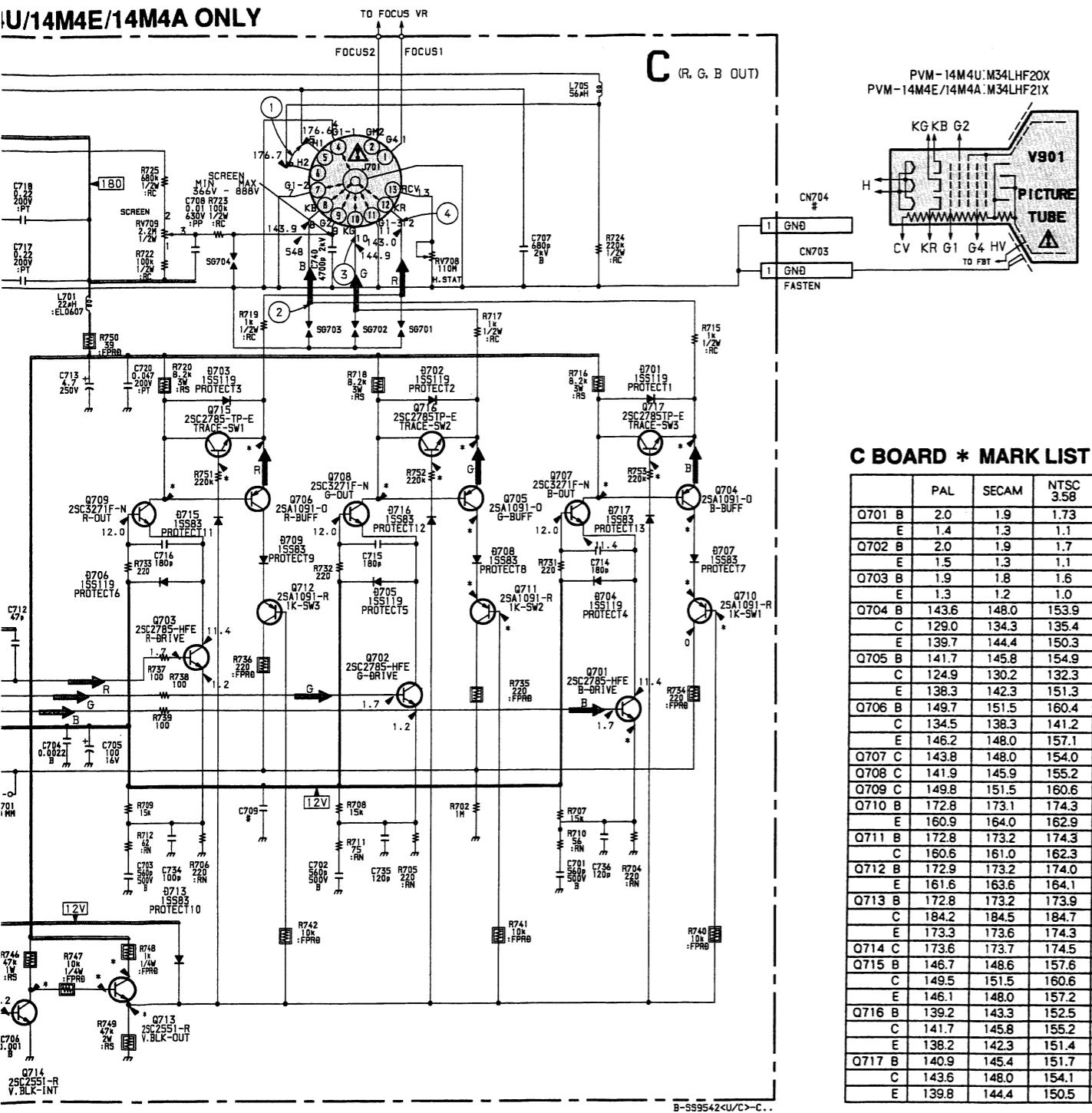
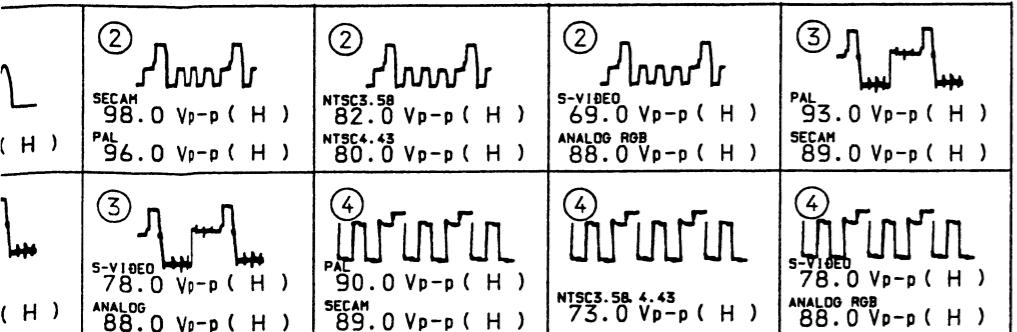
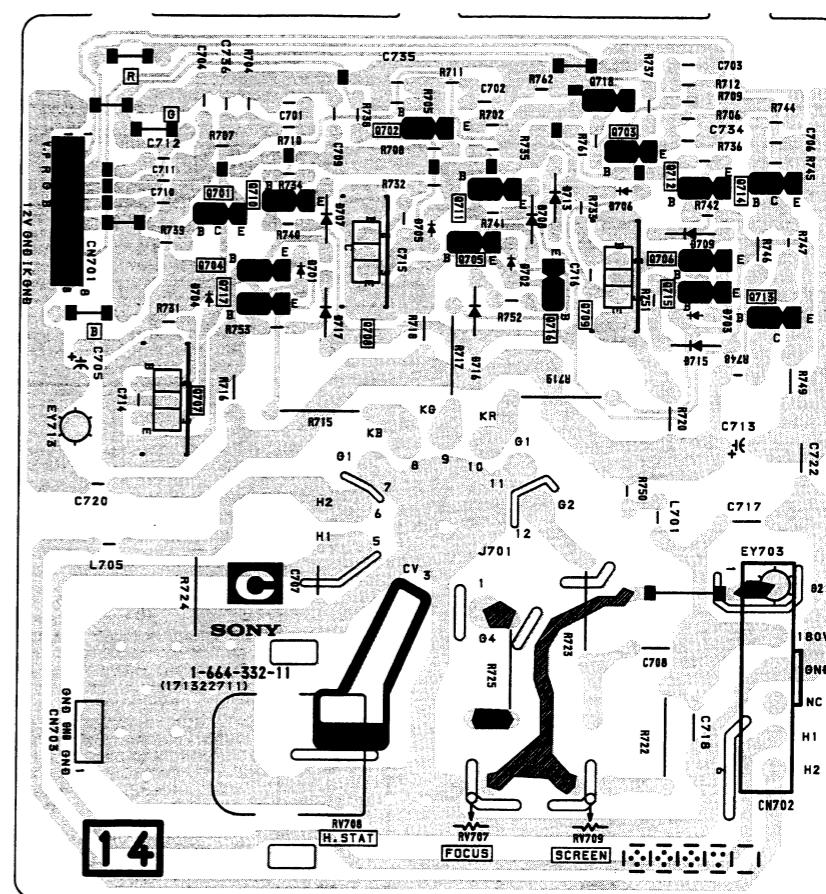
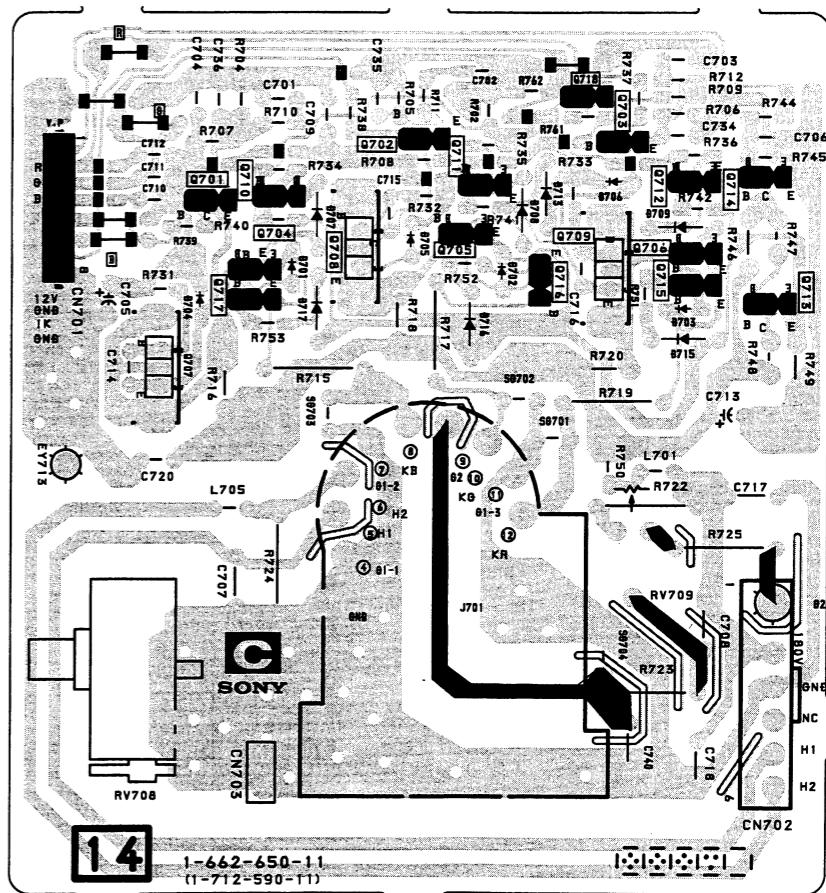
C BOARD WAVEFORMS



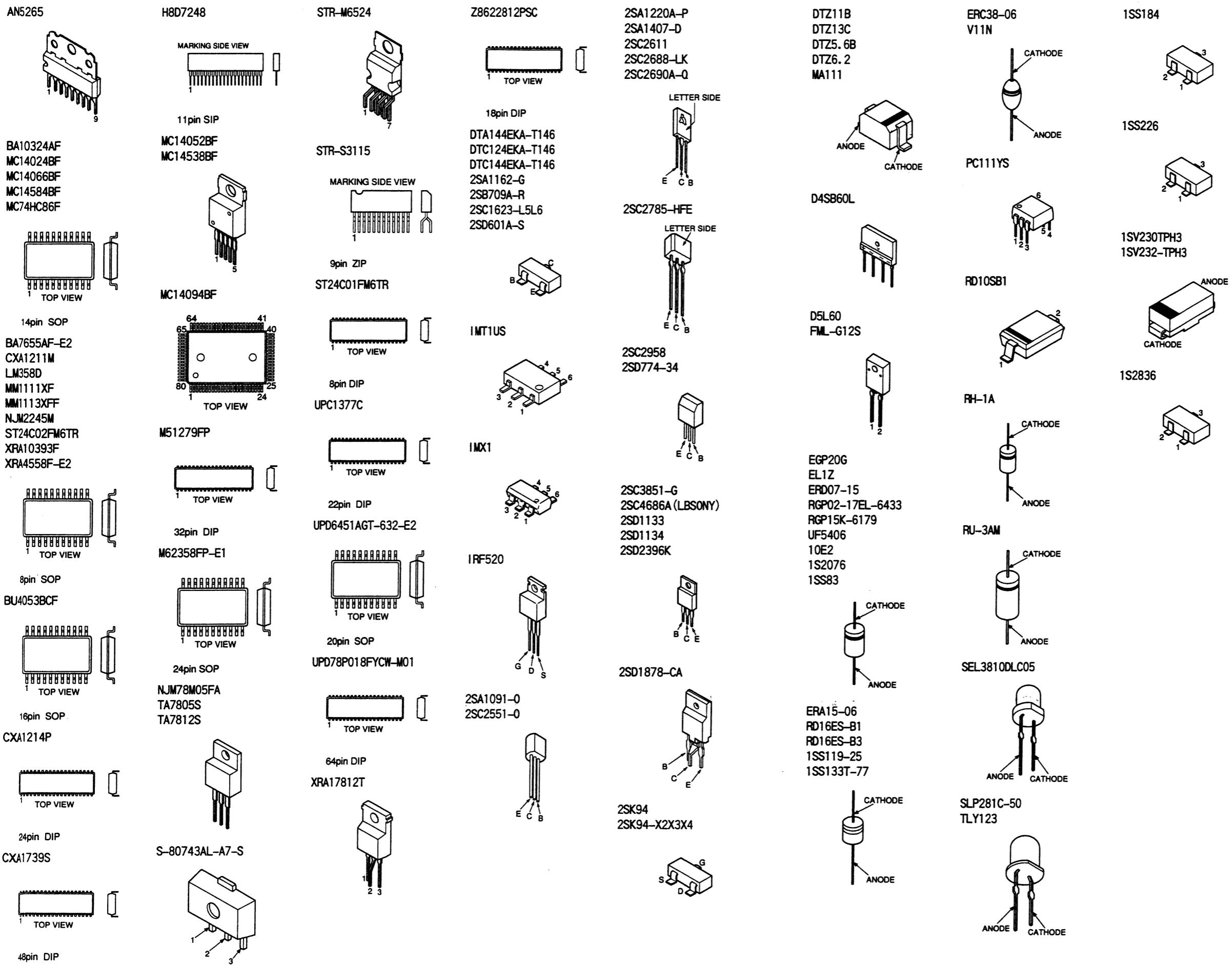
Schematic diagram

C board →



IU/14M4E/14M4A ONLY**WAVEFORMS****C [R.G.B OUT]****-C BOARD-** **PVM-14M2U/14M2E/14M2A ONLY****-C BOARD-** **PVM-14M4U/14M4E/14M4A ONLY**

6-5. SEMICONDUCTORS



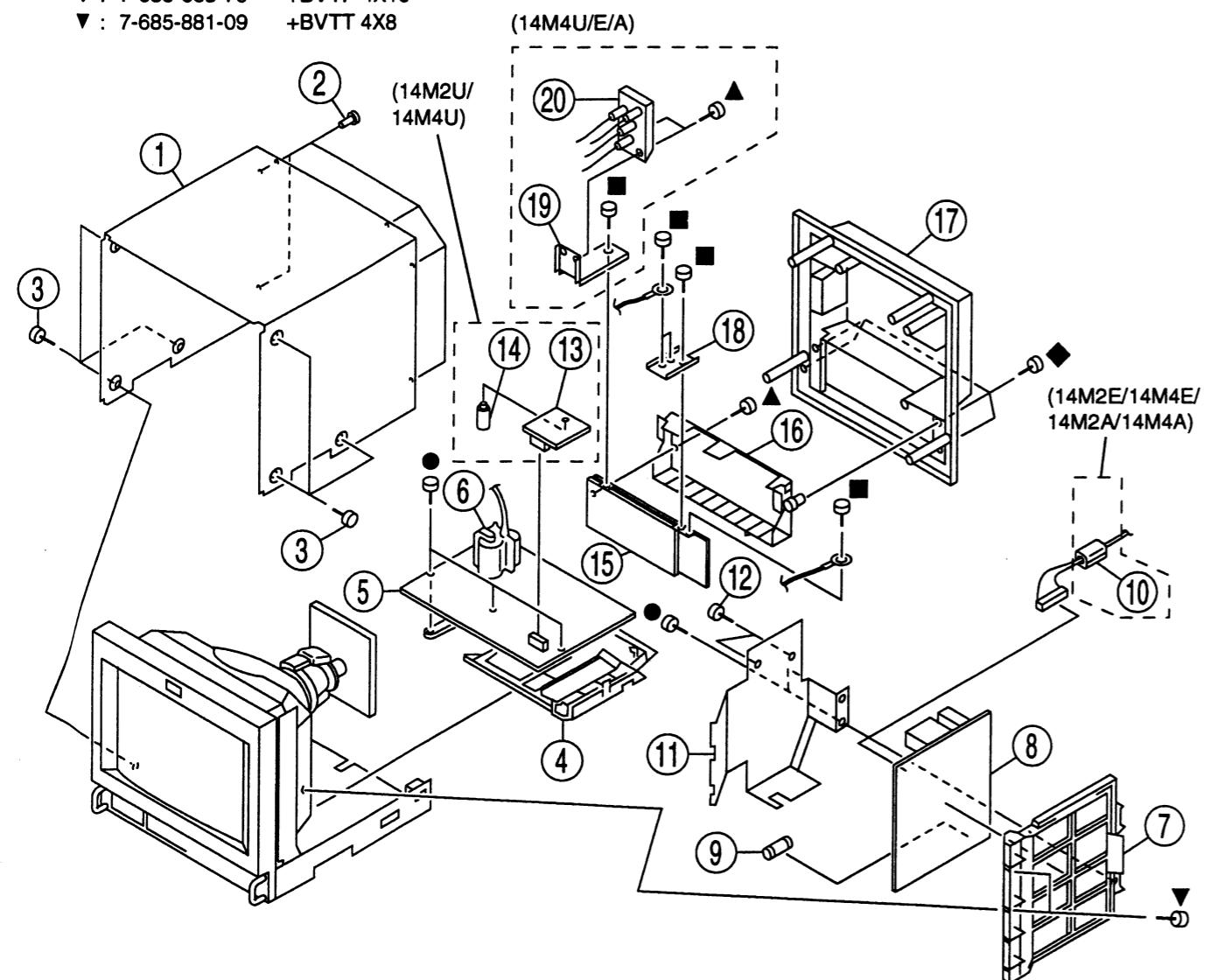
SECTION 7 EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.

7-1. CHASSIS

● : 7-685-648-79	+BVTP 3X12
■ : 7-682-661-01	+PS 4X8
▲ : 7-685-646-79	+BVTP 3X8
◆ : 7-685-663-79	+BVTP 4X16
▼ : 7-685-881-09	+BVTT 4X8



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-0515-323-0	COVER ASSY, TOP (14M2U/14M4U/14M2E/14M4E)	
	X-4034-350-1	COVER ASSY, TOP (14M2A/14M4A)	
2	4-391-825-01	RIVET, NYLON	
3	4-847-802-11	SCREW (OS), CASE, CLAW	
4	*4-043-690-01	BRACKET, MAIN	
5	*A-1298-002-A	A BOARD, COMPLETE (14M4U/E/A)	
	*A-1298-006-A	A BOARD, COMPLETE (14M2U/E/A)	
6	*1-453-232-11	TRANSFORMER ASSY, FLYBACK (14M2U/E/A)	
	*1-453-233-11	TRANSFORMER ASSY, FLYBACK (14M4U/E/A)	
7	*4-043-689-01	BRACKET, G	
8	*A-1316-302-A	G BOARD, COMPLETE	

REF. NO.	PART NO.	DESCRIPTION	REMARK
9	*1-576-231-11	FUSE (H.B.C.) 4A/250V	
10	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE) (14M2E/14M4E/14M2A/14M4A)	
11	*4-057-974-01	SHIELD, G PC BOARD	
12	4-382-854-11	SCREW (M3X10), P.SW (+)	
13	*A-1390-705-A	S BOARD, COMPLETE (14M2U/14M4U)	
14	*3-687-542-41	SPACER, PC BOARD SPACE (14M2U/14M4U)	
15	1-537-735-14	TERMINAL BOARD ASSY, I/O (A) (Q BOARD)	
16	4-043-688-01	PANEL, CONNECTOR	
17	4-055-635-01	COVER, REAR	
18	*4-058-363-01	TERMINAL, EARTH	
19	4-057-971-01	BRACKET, FOCUS VOLUME	
20	*1-223-417-11	RESISTOR ASSY (HIGH-VOLTAGE) (14M4U/E/A)	

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

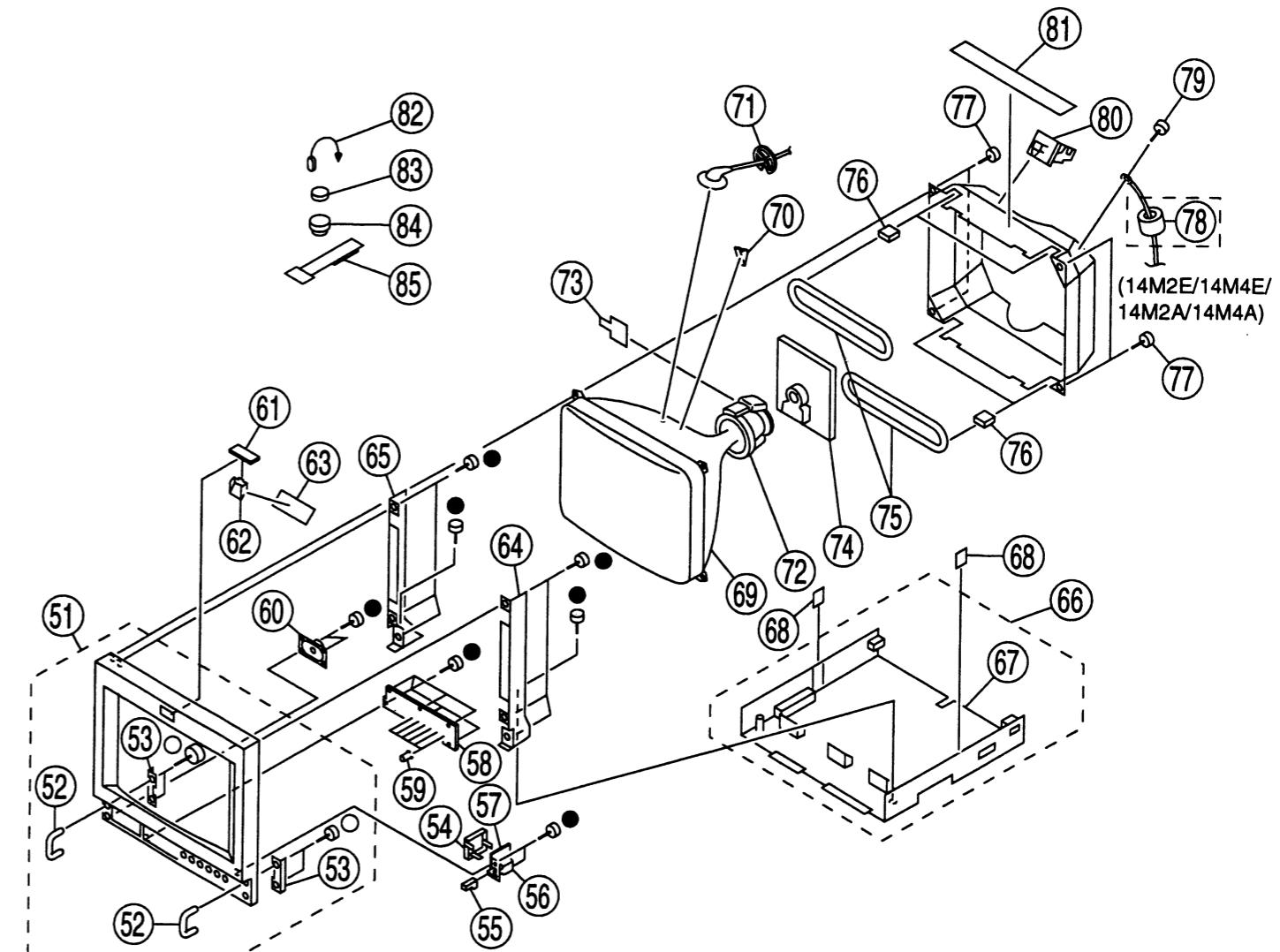
Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

7-2. PICTURE TUBE

- : 7-685-648-79 +BVTP 3X12
- : 7-682-563-09 +B 4X12

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4034-349-1	BEZEL ASSY (14M2U/E/A)	52,53	69	*A-8-738-333-05	PICTURE TUBE 14MT1 (L-BVM, PVM) (14M4E/A)	
	X-4034-351-1	BEZEL ASSY (14M4U/E/A)	52,53	69	*A-8-738-342-05	PICTURE TUBE 14MG (DARK) (14M2U/E/A)	
52	4-052-200-01	HANDLE, PROTECTOR		70	3-703-961-01	SPACER, DY	
53	*4-043-679-01	REINFORCEMENT, HANDLE		71	3-704-372-01	HOLDER, HV CABLE	
54	4-043-681-01	COVER, AC SWITCH		72	*1-451-457-11	DEFLECTION YOKE (14M4U/E/A)	
55	4-043-683-01	BUTTOM, POWER SWITCH		72	*A-8-451-472-11	DEFLECTION YOKE (14M2U/E/A)	
56	*1-692-921-01	SWITCH, PUSH (AC POWER)		73	X-2105-533-1	PLATE ASSY, CORRECTION, TLH	
57	*A-1388-193-A	J BOARD, COMPLETE		74	*A-1331-627-A	C BOARD, COMPLETE (14M4U/E/A)	
58	*A-1372-302-A	H BOARD, COMPLETE		74	*A-1331-631-A	C BOARD, COMPLETE (14M2U/E/A)	
59	4-043-802-02	KNOB, CONTROL		75	*1-426-442-21	COIL, DEMAGNETIZATION	
60	1-544-063-12	SPEAKER		76	*4-316-015-00	HOLDER, WIRE	
61	*A-1390-704-A	X BOARD, COMPLETE		77	4-365-808-01	SCREW (5), TAPPING	
62	*4-043-682-01	REFLECTOR, LED		78	1-543-827-11	CLAMP, SLEEVE FERRITE	
63	4-044-606-01	CUSHION, TALLY		79	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER) (14M2E/14M4E/14M2A/14M4A)	
64	*A-1450-188-A	BRACKET ASSY (R), SIDE		80	4-033-681-01	HOLDER, LEAD	
65	*A-1450-187-A	BRACKET ASSY (L), SIDE		81	4-391-833-01	CLOTH, PROTECTION	
66	X-4031-711-1	CABINET ASSY, BOTTOM		82	4-308-870-00	CLIP, LEAD WIRE	
67	4-391-840-04	CABINET, BOTTOM		83	1-452-032-00	MAGNET, DISK ; 10mmø	
68	4-042-608-01	NUT, PLATE		84	1-452-094-00	MAGNET, ROTATABLE DISK ; 15mmø	
69	*A-8-738-335-05	PICTURE TUBE 14MT1 (L-BVM, PVM) (14M4U/E/A)	85	4-051-736-21	PIECE A(90), CONV. CORRECT		

SECTION 8

ELECTRICAL PARTS LIST

A

NOTE:

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

- The components identified by \square in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

RESISTORS

- All resistors are in ohms
- F : nonflammable

CAPACITORS
PF : $\mu\mu$ F

- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1298-002-A	A BOARD, COMPLETE *****	(PVM-14M4U/E/A)	C201	1-137-353-11	MYLAR	0.047MF 10% 100V
	* A-1298-006-A	A BOARD, COMPLETE *****	(PVM-14M2U/E/A)	C202	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V
				C203	1-126-963-11	ELECT	4.7MF 20% 50V
				C204	1-126-964-11	ELECT	10MF 20% 50V
				C205	1-126-767-11	ELECT	1000MF 20% 16V
				C206	1-128-526-11	ELECT	100MF 20% 25V
				C207	1-104-665-11	ELECT	100MF 20% 25V
				C208	1-126-964-11	ELECT	10MF 20% 50V
				C209	1-126-963-11	ELECT	4.7MF 20% 50V
				C300	1-163-031-11	CERAMIC CHIP	0.01MF 50V
				C301	1-163-086-00	CERAMIC CHIP	3PF 0.25PF 50V
BPF400	1-236-363-11	FILTER, BAND PASS		C302	1-163-086-00	CERAMIC CHIP	3PF 0.25PF 50V
		<CAPACITOR>		C304	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C105	1-163-251-11	CERAMIC CHIP 100PF	5%	C305	1-163-259-91	CERAMIC CHIP	220PF 5% 50V
C106	1-163-251-11	CERAMIC CHIP 100PF	5%	C309	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C114	1-163-031-11	CERAMIC CHIP 0.01MF		C310	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C115	1-163-031-11	CERAMIC CHIP 0.01MF		C311	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C116	1-163-031-11	CERAMIC CHIP 0.01MF		C312	1-126-961-11	ELECT	2.2MF 20% 50V
C117	1-163-031-11	CERAMIC CHIP 0.01MF		C313	1-163-145-00	CERAMIC CHIP	0.0015MF 5% 50V
C118	1-163-259-91	CERAMIC CHIP 220PF	5%	C314	1-163-249-11	CERAMIC CHIP	82PF 5% 50V
C119	1-165-319-11	CERAMIC CHIP 0.1MF		C315	1-126-964-11	ELECT	10MF 20% 50V
C121	1-163-237-11	CERAMIC CHIP 27PF	5%	C316	1-104-664-11	ELECT	47MF 20% 25V
C123	1-165-319-11	CERAMIC CHIP 0.1MF		C317	1-163-231-11	CERAMIC CHIP	15PF 5% 50V
C124	1-163-251-11	CERAMIC CHIP 100PF	5%	C318	1-126-964-11	ELECT	10MF 20% 50V
C132	1-163-141-00	CERAMIC CHIP 0.001MF	5%	C319	1-163-222-11	CERAMIC CHIP	5PF 0.25PF 50V
C133	1-163-251-11	CERAMIC CHIP 100PF	5%	C320	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C134	1-163-251-11	CERAMIC CHIP 100PF	5%	C322	1-163-119-00	CERAMIC CHIP	120PF 5% 50V
C135	1-163-251-11	CERAMIC CHIP 100PF	5%	C323	1-163-231-11	CERAMIC CHIP	15PF 5% 50V
C136	1-163-251-11	CERAMIC CHIP 100PF	5%	C324	1-163-235-11	CERAMIC CHIP	22PF 5% 50V
C140	1-164-004-11	CERAMIC CHIP 0.1MF	10%	C325	1-126-964-11	ELECT	10MF 20% 50V
C141	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	C326	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C142	1-163-259-91	CERAMIC CHIP 220PF	5%	C327	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C143	1-165-319-11	CERAMIC CHIP 0.1MF		C328	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C144	1-165-319-11	CERAMIC CHIP 0.1MF		C329	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C145	1-165-319-11	CERAMIC CHIP 0.1MF		C330	1-163-243-11	CERAMIC CHIP	47PF 5% 50V
C154	1-163-037-11	CERAMIC CHIP 0.022MF	10%	C331	1-163-231-11	CERAMIC CHIP	15PF 5% 50V
C155	1-163-023-00	CERAMIC CHIP 0.015MF	10%	C332	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C156	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	C333	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C157	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	C334	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V
C158	1-163-809-11	CERAMIC CHIP 0.047MF	10%	C335	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V
C159	1-164-344-11	CERAMIC CHIP 0.068MF	10%	C336	1-104-664-11	ELECT	47MF 20% 25V
C161	1-104-664-11	ELECT	47MF	C337	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C162	1-163-141-00	CERAMIC CHIP 0.001MF	5%	C338	1-163-119-00	CERAMIC CHIP	120PF 5% 50V
C164	1-165-319-11	CERAMIC CHIP 0.1MF		C339	1-163-231-11	CERAMIC CHIP	15PF 5% 50V
C165	1-165-319-11	CERAMIC CHIP 0.1MF		C340	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C166	1-164-004-11	CERAMIC CHIP 0.1MF	10%	C341	1-163-119-00	CERAMIC CHIP	120PF 5% 50V
C167	1-126-925-11	ELECT	470MF	C342	1-163-018-00	CERAMIC CHIP	0.0056MF 10% 50V
C168	1-126-925-11	ELECT	470MF	C343	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C169	1-164-232-11	CERAMIC CHIP 0.01MF	10%	C344	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V
C171	1-163-251-11	CERAMIC CHIP 100PF	5%	C345	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V
C174	1-163-243-11	CERAMIC CHIP 47PF	5%	C346	1-126-960-11	ELECT	1MF 20% 50V
C200	1-126-963-11	ELECT	4.7MF	C347	1-163-243-11	CERAMIC CHIP	47PF 5% 50V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
C348	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C420	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C349	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	C421	1-164-222-11	CERAMIC CHIP 0.22MF	10%	25V
C350	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	C422	1-126-960-11	ELECT 1MF	20%	50V
C351	1-104-664-11	ELECT 47MF	20%	25V	C423	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C352	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C424	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C353	1-165-319-11	CERAMIC CHIP 0.1MF		50V	C426	1-163-243-11	CERAMIC CHIP 47PF	5%	50V
C354	1-163-121-00	CERAMIC CHIP 150PF	5%	50V	C427	1-163-031-11	CERAMIC CHIP 0.01MF	10%	50V
C355	1-126-960-11	ELECT 1MF	20%	50V	C428	1-104-661-91	ELECT 330MF	20%	16V
C356	1-126-963-11	ELECT 4.7MF	20%	50V	C429	1-163-031-11	CERAMIC CHIP 0.01MF	10%	50V
C357	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C430	1-104-661-91	ELECT 330MF	20%	16V
C358	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C431	1-165-319-11	CERAMIC CHIP 0.1MF		50V
C359	1-104-664-11	ELECT 47MF	20%	25V	C432	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C360	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	C433	1-163-235-11	CERAMIC CHIP 22PF	5%	50V
C361	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C434	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C362	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C435	1-163-089-00	CERAMIC CHIP 6PF	0.25PF	50V
C363	1-163-099-00	CERAMIC CHIP 18PF	5%	50V	C436	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C364	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C437	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C365	1-106-343-00	MYLAR 0.001MF	10%	100V	C438	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C366	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C439	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C367	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C440	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C368	1-124-261-00	ELECT 10MF	20%	50V	C441	1-126-962-11	ELECT 3.3MF	20%	50V
C369	1-164-298-11	CERAMIC CHIP 0.15MF	10%	25V	C442	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C370	1-104-664-11	ELECT 47MF	20%	25V	C443	1-163-243-11	CERAMIC CHIP 47PF	5%	50V
C371	1-104-664-11	ELECT 47MF	20%	25V	C444	1-165-319-11	CERAMIC CHIP 0.1MF	10%	50V
C372	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C445	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C373	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	C446	1-163-089-00	CERAMIC CHIP 6PF	0.25PF	50V
C374	1-126-960-11	ELECT 1MF	20%	50V	C447	1-163-263-11	CERAMIC CHIP 330PF	5%	50V
C375	1-163-259-91	CERAMIC CHIP 220PF	5%	50V	C448	1-163-243-11	CERAMIC CHIP 47PF	5%	50V
C376	1-126-959-11	ELECT 0.47MF	20%	50V	C449	1-163-227-11	CERAMIC CHIP 10PF	0.5PF	50V
C377	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V	C450	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C378	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V	C451	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C379	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C452	1-163-263-11	CERAMIC CHIP 330PF	5%	50V
C380	1-126-767-11	ELECT 1000MF	20%	16V	C453	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C381	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C454	1-163-243-11	CERAMIC CHIP 47PF	5%	50V
C382	1-163-243-11	CERAMIC CHIP 47PF	5%	50V	C455	1-163-263-11	CERAMIC CHIP 330PF	5%	50V
C383	1-104-664-11	ELECT 47MF	20%	25V	C456	1-163-089-00	CERAMIC CHIP 6PF	0.25PF	50V
C384	1-163-249-11	CERAMIC CHIP 82PF	5%	50V	C457	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C385	1-104-664-11	ELECT 47MF	20%	25V	C458	1-163-249-11	CERAMIC CHIP 82PF	5%	50V
C386	1-124-261-00	ELECT 10MF	20%	50V	C459	1-165-319-11	CERAMIC CHIP 0.1MF	10%	50V
C387	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	C460	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C388	1-124-261-00	ELECT 10MF	20%	50V	C461	1-163-119-00	CERAMIC CHIP 120PF	5%	50V
C389	1-104-664-11	ELECT 47MF	20%	25V	C462	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C390	1-163-243-11	CERAMIC CHIP 47PF	5%	50V	C463	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C391	1-104-664-11	ELECT 47MF	20%	25V	C464	1-164-299-11	CERAMIC CHIP 0.22MF	10%	25V
C392	1-164-298-11	CERAMIC CHIP 0.15MF	10%	25V	C465	1-163-231-11	CERAMIC CHIP 15PF	5%	50V
C393	1-164-298-11	CERAMIC CHIP 0.15MF	10%	25V	C466	1-163-119-00	CERAMIC CHIP 120PF	5%	50V
C394	1-104-664-11	ELECT 47MF	20%	25V	C467	1-163-119-00	CERAMIC CHIP 120PF	5%	50V
C395	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	C469	1-163-037-11	CERAMIC CHIP 0.022MF	10%	50V
C396	1-164-299-11	CERAMIC CHIP 0.22MF	10%	25V	C470	1-163-243-11	CERAMIC CHIP 47PF	5%	50V
C397	1-104-664-11	ELECT 47MF	20%	25V	C471	1-163-105-00	CERAMIC CHIP 33PF	5%	50V
C398	1-104-664-11	ELECT 47MF	20%	25V	C472	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C399	1-104-664-11	ELECT 47MF	20%	25V	C473	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C400	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C475	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C401	1-164-346-11	CERAMIC CHIP 1MF		16V	C476	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C402	1-126-967-11	ELECT 47MF	20%	50V	C477	1-164-299-11	CERAMIC CHIP 0.22MF	10%	25V
C403	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	C478	1-126-964-11	ELECT 10MF	20%	50V
C406	1-126-965-11	ELECT 22MF	20%	50V	C479	1-163-121-00	CERAMIC CHIP 150PF	5%	50V
C407	1-104-664-11	ELECT 47MF	20%	25V	C482	1-126-925-11	ELECT 470MF	20%	10V
C408	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	C483	1-163-249-11	CERAMIC CHIP 82PF	5%	50V
C409	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C484	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C410	1-126-965-11	ELECT 22MF	20%	50V	C485	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C411	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C486	1-163-249-11	CERAMIC CHIP 82PF	5%	50V
C414	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C487	1-163-235-11	CERAMIC CHIP 22PF	5%	50V
C415	1-126-964-11	ELECT 10MF	20%	50V	C490	1-164-336-11	CERAMIC CHIP 0.33MF		25V
C416	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	C491	1-164-336-11	CERAMIC CHIP 0.33MF		25V
C417	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	C492	1-164-336-11	CERAMIC CHIP 0.33MF		25V
C418	1-164-182-11	CERAMIC CHIP 0.0033MF	10%	50V	C493	1-104-760-11	CERAMIC CHIP 0.047MF	10%	50V
C419	1-126-925-11	ELECT 470MF	20%	10V	C494	1-164-005-11	CERAMIC CHIP 0.47MF	25V	
				C495	1-126-964-11	ELECT 10MF	20%	50V	

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK			
C496	1-163-249-11	CERAMIC CHIP 82PF	5%	50V	C565	1-126-960-11	ELECT	1MF 20%	50V	
C497	1-163-011-11	CERAMIC CHIP 0.0015MF	10%	50V	C566	1-137-150-11	MYLAR	0.01MF 10%	100V	
C498	1-126-961-11	ELECT	2.2MF	20%	50V	C567	1-136-499-11	FILM	0.047MF 5%	50V
C499	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C568	1-126-960-11	ELECT	1MF 20%	50V		
C500	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C569	1-131-351-00	TANTALUM	4.7MF 10%	25V	
C501	1-164-182-11	CERAMIC CHIP 0.0033MF	10%	50V	C570	1-126-767-11	ELECT	1000MF 20%	16V	
C502	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	C571	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C503	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	C572	1-104-709-11	ELECT	4.7MF 0	160V	
C504	1-136-495-11	FILM	0.068MF	5%	50V	C573	1-136-173-00	FILM	0.47MF 5%	50V
C505	1-163-199-00	CERAMIC CHIP 560PF	5%	50V	C575	1-163-031-11	CERAMIC CHIP 0.01MF	50V	50V	
C506	1-126-959-11	ELECT	0.47MF	20%	50V	C576	1-102-244-00	CERAMIC	220PF 10%	500V
C507	1-128-526-11	ELECT	100MF	20%	25V	C577	1-107-906-11	ELECT	10MF 20%	50V
C508	1-130-497-00	MYLAR	0.15MF	5%	50V	C578	1-136-112-00	FILM	1.4MF 5%	200V
C509	1-128-566-11	ELECT	470MF	20%	100V	C579	1-107-910-11	ELECT	100MF 20%	50V
C511	1-107-368-11	FILM	0.047MF	10%	200V	C580	1-136-756-11	FILM	0.24MF 5%	200V
C512	1-126-959-11	ELECT	0.47MF	20%	50V	C581	1-126-963-11	ELECT	4.7MF 20%	50V
C513	1-124-261-00	ELECT	10MF	20%	50V	C582	1-102-002-00	CERAMIC	680PF 10%	500V
C514	Δ 1-129-713-91	FILM	0.012MF	10%	630V (14M4U/E/A)	C583	1-136-828-11	FILM	1.8MF 5%	200V
C514	Δ 1-130-338-91	FILM	0.01MF	5%	630V (14M2U/E/A)	C584	1-107-949-11	ELECT	2.2MF 20%	160V
C515	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	C585	1-107-960-11	ELECT	4.7MF 20%	250V
C516	1-102-030-00	CERAMIC	330PF	10%	500V	C586	1-126-942-61	ELECT	1000MF 20%	25V
C517	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V	C587	1-102-030-00	CERAMIC	330PF 10%	500V
C518	1-107-947-11	ELECT	220MF	20%	160V	C588	1-107-906-11	ELECT	10MF 20%	50V
C519	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C589	1-102-030-00	CERAMIC	330PF 10%	500V
C520	1-163-257-11	CERAMIC CHIP	180PF	5%	50V	C590	1-107-903-11	ELECT	2.2MF 20%	50V
C521	1-162-114-00	CERAMIC	0.0047MF	2KV	C591	1-107-365-91	FILM	0.015MF 10%	200V	
C522	1-126-768-11	ELECT	2200MF	20%	16V	C592	1-107-635-11	ELECT	4.7MF 20%	160V
C523	1-107-902-11	ELECT	1MF	20%	50V	C593	1-165-319-11	CERAMIC CHIP	0.1MF 5%	50V
C525	Δ 1-136-080-11	FILM	0.011MF	3%	2KV (14M4U/E/A)	C594	1-163-229-11	CERAMIC CHIP	12PF 5%	50V
C525	Δ 1-136-079-11	FILM	0.01MF	3%	2KV (14M2U/E/A)	C595	1-107-889-11	ELECT	220MF 20%	25V
C526	Δ 1-162-116-91	CERAMIC	680PF	10%	2KV	C596	1-104-665-11	ELECT	100MF 20%	25V
C527	1-162-134-11	CERAMIC	470PF	10%	2KV (14M2U/E/A)	C597	1-164-346-11	CERAMIC CHIP	1MF 16V	16V
C529	1-107-901-11	ELECT	0.47MF	20%	50V	C598	1-164-346-11	CERAMIC CHIP	1MF 16V	16V
C530	1-104-666-11	ELECT	220MF	20%	25V	C599	1-124-261-00	ELECT	10MF 20%	50V
C531	1-104-664-11	ELECT	47MF	20%	25V	C600	1-104-664-11	ELECT	47MF 20%	25V
C532	1-163-031-11	CERAMIC CHIP	0.01MF	50V	C601	1-104-664-11	ELECT	47MF 20%	25V	
C533	1-102-212-00	CERAMIC	820PF	10%	500V	C602	1-163-133-00	CERAMIC CHIP	470PF 5%	50V
C534	1-107-662-11	ELECT	22MF	20%	250V	C604	1-104-664-11	ELECT	47MF 20%	25V
C537	1-126-971-11	ELECT	470MF	20%	50V	C605	1-104-664-11	ELECT	47MF 20%	25V
C538	1-137-150-11	MYLAR	0.01MF	10%	100V	C606	1-163-031-11	CERAMIC CHIP	0.01MF 50V	50V
C539	1-130-480-00	FILM	0.0056MF	5%	50V	C607	1-163-031-11	CERAMIC CHIP	0.01MF 50V	50V
C540	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C608	1-126-933-11	ELECT	100MF 20%	10V
C541	1-107-905-11	ELECT	4.7MF	20%	50V	C609	1-163-257-11	CERAMIC CHIP	180PF 5%	50V
C542	1-136-481-11	MYLAR	0.0022MF	10%	100V	C610	1-163-031-11	CERAMIC CHIP	0.01MF 50V	50V
C543	1-136-481-11	MYLAR	0.0022MF	10%	100V	C611	1-104-664-11	ELECT	47MF 20%	25V
C544	1-137-150-11	MYLAR	0.01MF	10%	100V	C612	1-163-031-11	CERAMIC CHIP	0.01MF 50V	50V
C545	1-102-212-00	CERAMIC	820PF	10%	500V	C613	1-104-664-11	ELECT	47MF 20%	25V
C546	1-163-119-00	CERAMIC CHIP	120PF	5%	50V	C614	1-104-664-11	ELECT	47MF 20%	25V
C547	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C615	1-104-664-11	ELECT	47MF 20%	25V
C548	1-102-212-00	CERAMIC	820PF	10%	500V	C616	1-163-031-11	CERAMIC CHIP	0.01MF 50V	50V
C549	1-107-906-11	ELECT	10MF	20%	50V	C617	1-104-664-11	ELECT	47MF 20%	25V
C550	1-107-905-11	ELECT	4.7MF	20%	50V	C618	1-104-664-11	ELECT	47MF 20%	25V
C551	1-106-375-12	MYLAR	0.022MF	10%	100V	C619	1-163-037-11	CERAMIC CHIP	0.022MF 10%	50V
C552	1-107-889-11	ELECT	220MF	20%	25V	C620	1-104-664-11	ELECT	47MF 20%	25V
C553	1-106-389-00	MYLAR	0.082MF	10%	200V (14M4U/E/A)	C621	1-104-664-11	ELECT	47MF 20%	25V
C554	1-130-736-11	FILM	0.01MF	5%	50V	C622	1-126-934-11	ELECT	220MF 20%	16V
C555	1-126-964-11	ELECT	10MF	20%	50V	C623	1-163-031-11	CERAMIC CHIP	0.01MF 50V	50V
C556	1-126-964-11	ELECT	10MF	20%	50V	C624	1-163-031-11	CERAMIC CHIP	0.01MF 50V	50V
C557	1-106-381-12	MYLAR	0.039MF	10%	100V	C625	1-163-031-11	CERAMIC CHIP	0.01MF 50V	50V
C558	1-126-960-11	ELECT	1MF	20%	50V	C626	1-104-664-11	ELECT	47MF 20%	25V
C559	1-136-173-00	FILM	0.47MF	5%	50V	C627	1-163-031-11	CERAMIC CHIP	0.01MF 50V	50V
C561	1-136-159-00	FILM	0.033MF	5%	50V	C628	1-163-031-11	CERAMIC CHIP	0.01MF 50V	50V
C564	1-126-964-11	ELECT	10MF	20%	50V	C629	1-126-964-11	ELECT	10MF 20%	50V
C565	1-126-960-11	ELECT	1MF	20%	50V	C630	1-163-031-11	CERAMIC CHIP	0.01MF 50V	50V
C566	1-137-150-11	MYLAR	0.01MF	10%	100V	C631	1-104-664-11	ELECT	47MF 20%	25V
C567	1-136-499-11	FILM	0.047MF	5%	50V	C632	1-104-664-11	ELECT	47MF 20%	25V
C568	1-126-960-11	ELECT	1MF	20%	50V	C633	1-104-664-11	ELECT	47MF 20%	25V
C569	1-131-351-00	TANTALUM	4.7MF	10%	25V	C634	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V	50V
C570	1-126-767-11	ELECT	1000MF	20%	16V					
C571	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V					
C572	1-104-709-11	ELECT	4.7MF	0	160V					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
C1335	1-104-664-11	ELECT	47MF	20%	25V	C1515	1-126-964-11	ELECT	10MF	20%	50V
C1336	1-104-664-11	ELECT	47MF	20%	25V	C1516	1-163-063-91	CERAMIC CHIP	0.022MF	10%	50V
C1338	1-163-031-11	CERAMIC CHIP	0.01MF	50V	C1517	1-128-526-11	ELECT	100MF	20%	10V	
C1339	1-163-031-11	CERAMIC CHIP	0.01MF	50V	C1518	1-107-909-11	ELECT	47MF	20%	16V	
C1340	1-163-031-11	CERAMIC CHIP	0.01MF	50V	C1520	1-162-129-00	CERAMIC	150PF	10%	2KV	
C1341	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V						(14M4U/E/A)
C1342	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	C1521	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1343	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	C1524	1-107-910-11	ELECT	100MF	20%	50V
C1344	1-163-083-00	CERAMIC CHIP	1PF	0.25PF	50V	C1525	1-162-114-00	CERAMIC	0.0047MF	2KV	
C1345	1-124-261-00	ELECT	10MF	20%	50V	C1530	1-163-031-11	CERAMIC CHIP	0.01MF	50V	
C1346	1-124-589-11	ELECT	47MF	20%	16V	C1537	1-130-783-00	MYLAR	0.33MF	10%	100V
C1347	1-163-031-11	CERAMIC CHIP	0.01MF	50V	C1538	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C1348	1-163-127-00	CERAMIC CHIP	270PF	5%	50V						(14M4U/E/A)
C1349	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C2501	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1350	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C2502	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1351	1-126-960-11	ELECT	1MF	20%	50V	C2503	1-136-553-11	FILM	0.0015MF	5%	630V
C1352	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V						(14M2U/E/A)
C1353	1-163-031-11	CERAMIC CHIP	0.01MF	50V							
C1354	1-163-121-00	CERAMIC CHIP	150PF	5%	50V						
C1355	1-163-259-91	CERAMIC CHIP	220PF	5%	50V						
C1356	1-163-235-11	CERAMIC CHIP	22PF	5%	50V						
C1357	1-104-661-91	ELECT	330MF	20%	16V						
C1358	1-124-589-11	ELECT	47MF	20%	16V						
C1359	1-163-263-11	CERAMIC CHIP	330PF	5%	50V						
C1360	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V						
C1362	1-163-249-11	CERAMIC CHIP	82PF	5%	50V						
C1363	1-163-235-11	CERAMIC CHIP	22PF	5%	50V						
C1364	1-163-133-00	CERAMIC CHIP	470PF	5%	50V						
C1365	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V						
C1366	1-104-664-11	ELECT	47MF	20%	25V						
C1367	1-104-664-11	ELECT	47MF	20%	25V						
C1369	1-163-237-11	CERAMIC CHIP	27PF	5%	50V						
C1370	1-163-237-11	CERAMIC CHIP	27PF	5%	50V						
C1372	1-104-664-11	ELECT	47MF	20%	25V						
C1373	1-104-664-11	ELECT	47MF	20%	25V						
C1374	1-104-664-11	ELECT	47MF	20%	25V						
C1375	1-126-963-11	ELECT	4.7MF	20%	50V						
C1378	1-163-231-11	CERAMIC CHIP	15PF	5%	50V						
C1380	1-163-163-00	CERAMIC CHIP	18PF	5%	50V						
C1381	1-163-163-00	CERAMIC CHIP	18PF	5%	50V						
C1382	1-126-933-11	ELECT	100MF	20%	10V						
C1383	1-104-664-11	ELECT	47MF	20%	25V						
C1384	1-163-038-91	CERAMIC CHIP	0.1MF	50V							
C1385	1-163-031-11	CERAMIC CHIP	0.01MF	50V							
C1386	1-163-031-11	CERAMIC CHIP	0.01MF	50V							
C1387	1-163-031-11	CERAMIC CHIP	0.01MF	50V							
C1388	1-163-229-11	CERAMIC CHIP	12PF	5%	50V						
C1393	1-163-251-11	CERAMIC CHIP	100PF	5%	50V						
C1400	1-163-031-11	CERAMIC CHIP	0.01MF	50V							
C1401	1-136-173-00	FILM	0.47MF	5%	50V						
C1402	1-163-031-11	CERAMIC CHIP	0.01MF	50V							
C1403	1-136-173-00	FILM	0.47MF	5%	50V	D100	8-719-404-49	DIODE MA111			
C1404	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V	D101	8-719-800-76	DIODE 1SS226			
C1405	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	D102	8-719-800-76	DIODE 1SS226			
C1406	1-163-090-00	CERAMIC CHIP	7PF	0.25PF	50V	D103	8-719-045-70	DIODE 1SV230TPH3			
C1407	1-163-085-00	CERAMIC CHIP	2PF	0.25PF	50V	D104	8-719-800-76	DIODE 1SS226			
C1408	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	D105	8-719-800-76	DIODE 1SS226			
C1500	1-126-768-11	ELECT	2200MF	20%	16V	D107	8-719-800-76	DIODE 1SS226			
C1501	1-126-925-11	ELECT	470MF	20%	10V	D108	8-719-104-34	DIODE 1S2836			
C1505	1-136-165-00	FILM	0.1MF	5%	50V	D109	8-719-801-78	DIODE 1SS184			
C1506	1-104-661-91	ELECT	330MF	20%	16V	D111	8-719-977-05	DIODE DTZ6.2			
C1507	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	D114	8-719-404-49	DIODE MA111			
C1508	1-126-963-11	ELECT	4.7MF	20%	50V	D115	8-719-977-05	DIODE DTZ6.2			
C1509	1-126-964-11	ELECT	10MF	20%	50V	D116	8-719-404-49	DIODE MA111			
C1510	1-126-963-11	ELECT	4.7MF	20%	50V	D200	8-719-977-46	DIODE DTZ13C			
C1511	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V	D300	8-719-025-07	DIODE 1SV232-TPH3			
C1512	1-126-963-11	ELECT	4.7MF	20%	50V	D301	8-719-404-49	DIODE MA111			
C1513	1-163-197-00	CERAMIC CHIP	470PF	5%	50V	D303	8-719-977-05	DIODE DTZ6.2			
C1514	1-130-477-00	MYLAR	0.0033MF	5%	50V	D304	8-719-801-78	DIODE 1SS184			
						D305	8-719-800-76	DIODE 1SS226			

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D307	8-719-404-49	DIODE MA111		D516	8-719-404-49	DIODE MA111	
D308	8-719-404-49	DIODE MA111		D517	8-719-404-49	DIODE MA111	
D309	8-719-404-49	DIODE MA111		D518	8-719-404-49	DIODE MA111	
D310	8-719-104-34	DIODE 1S2836		D519	8-719-404-49	DIODE MA111	
D311	8-719-045-70	DIODE 1SV230TPH3		D520	8-719-801-78	DIODE 1SS184	
D313	8-719-801-78	DIODE 1SS184		D521	8-719-404-49	DIODE MA111	
D314	8-719-404-49	DIODE MA111		D522	8-719-977-05	DIODE DTZ6.2	
D315	8-719-404-49	DIODE MA111		D523	8-719-920-76	DIODE 1S2076	
D317	8-719-404-49	DIODE MA111		D524	8-719-200-02	DIODE 10E-2	
D320	8-719-404-49	DIODE MA111		D525	8-719-200-02	DIODE 10E-2	
D322	8-719-404-49	DIODE MA111		D526	8-719-404-49	DIODE MA111	
D323	8-719-404-49	DIODE MA111		D527	8-719-200-02	DIODE 10E-2	
D324	8-719-045-70	DIODE 1SV230TPH3		D528	8-719-300-76	DIODE RH-1A	
D325	8-719-801-78	DIODE 1SS184		D529	8-719-200-02	DIODE 10E-2	
D326	8-719-045-70	DIODE 1SV230TPH3		D530	8-719-300-76	DIODE RH-1A	
D327	8-719-104-34	DIODE 1S2836		D531	8-719-977-32	DIODE DTZ11B	
D332	8-719-404-49	DIODE MA111		D532	8-719-800-76	DIODE 1SS226	
D333	8-719-404-49	DIODE MA111		D533	8-719-302-43	DIODE EL1Z	
D335	8-719-404-49	DIODE MA111		D534	8-719-404-49	DIODE MA111	
D336	8-719-404-49	DIODE MA111		D535	8-719-404-49	DIODE MA111	
D337	8-719-404-49	DIODE MA111		D536	8-719-800-76	DIODE 1SS226	
D338	8-719-404-49	DIODE MA111		D537	8-719-800-76	DIODE 1SS226	
D339	8-719-404-49	DIODE MA111		D538	8-719-800-76	DIODE 1SS226	
D344	8-719-801-78	DIODE 1SS184		D539	8-719-920-76	DIODE 1S2076	
D345	8-719-104-34	DIODE 1S2836		D540	8-719-404-49	DIODE MA111	
D346	8-719-104-34	DIODE 1S2836		D541	8-719-801-78	DIODE 1SS184	
D347	8-719-104-34	DIODE 1S2836		D542	8-719-404-49	DIODE MA111	
D360	1-216-295-91	CONDUCTOR, CHIP		D543	8-719-404-49	DIODE MA111	
D361	1-216-295-91	CONDUCTOR, CHIP		D544	8-719-404-49	DIODE MA111 (14M4U/E/A)	
D362	8-719-158-40	DIODE RD10SB1		D545	8-719-404-49	DIODE MA111 (14M4U/E/A)	
D363	8-719-158-40	DIODE RD10SB1		D546	8-719-901-19	DIODE V11N (14M4U/E/A)	
D364	8-719-104-34	DIODE 1S2836		D547	8-719-404-49	DIODE MA111	
D365	8-719-404-49	DIODE MA111		D548	8-719-110-46	DIODE RD16ESB3 (14M4U/E/A)	
D381	8-719-404-49	DIODE MA111					<DELAY LINE>
D401	8-719-404-49	DIODE MA111		DL300	1-415-633-11	DELAY LINE, Y	
D404	8-719-800-76	DIODE 1SS226		DL301	1-415-632-11	DELAY LINE, Y	
D407	8-719-404-49	DIODE MA111		DL401	1-409-547-11	DELAY LINE	
D408	8-719-404-49	DIODE MA111					<FERRITE BEAD>
D410	8-719-404-49	DIODE MA111		FB501	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
D411	8-719-404-49	DIODE MA111					<FILTER>
D414	8-719-801-78	DIODE 1SS184		FL300	1-236-547-11	TRAP, LC	
D415	8-719-801-78	DIODE 1SS184		FL401	1-236-364-11	FILTER, BAND PASS	
D416	8-719-801-78	DIODE 1SS184					<IC>
D417	8-719-801-78	DIODE 1SS184		IC101	1-540-044-11	SOCKET, IC	
D418	8-719-801-78	DIODE 1SS184		IC101	8-759-462-05	IC uPD78P018FYCW-M01	
D421	8-719-404-49	DIODE MA111		IC102	8-759-354-28	IC ST24C02FM6TR	
D422	8-719-404-49	DIODE MA111		IC103	8-759-008-48	IC MC74HC86F	
D423	8-719-800-76	DIODE 1SS226		IC104	8-759-262-59	IC uPD6451AGT-632-E2	
D424	8-719-404-49	DIODE MA111		IC105	8-759-196-70	IC M62358FP-E1	
D425	8-719-800-76	DIODE 1SS226		IC106	8-759-196-70	IC M62358FP-E1	
D427	8-719-404-49	DIODE MA111		IC107	8-759-196-70	IC M62358FP-E1	
D500	8-719-404-49	DIODE MA111		IC108	8-759-042-02	IC S-80743AL-A7-S	
D501	8-719-977-03	DIODE DTZ5.6B		IC109	8-759-196-70	IC M62358FP-E1	
D502	8-719-979-80	DIODE UF5406		IC110	8-759-196-70	IC M62358FP-E1	
D503	8-719-404-49	DIODE MA111		IC111	8-759-009-22	IC MC14094BF	
D504	8-719-901-83	DIODE 1SS83		IC112	8-759-354-27	IC ST24C01FM6TR	
D505	8-719-028-72	DIODE RGP02-17EL-6433		IC200	8-759-420-04	IC AN5265	
D506	8-719-033-83	DIODE ERD07-15		IC301	8-752-053-21	IC CXA1211M	
D507	8-719-800-76	DIODE 1SS226		IC302	8-759-998-98	IC LM358D	
D508	8-719-800-76	DIODE 1SS226		IC303	8-752-056-67	IC CXA1214P	
D509	8-719-404-49	DIODE MA111		IC304	8-759-932-67	IC BU4053BCF	
D510	8-719-302-43	DIODE EL1Z		IC305	8-759-631-08	IC M51279FP	
D512	8-719-979-80	DIODE UF5406					
D513	8-719-404-49	DIODE MA111					
D514	8-719-971-20	DIODE ERC38-06					
D515	8-719-971-20	DIODE ERC38-06					

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Les composants identifiés par une trame et une marque **Δ** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **Δ** are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
IC306	8-759-711-32	IC NJM2245M		L314	1-412-011-31	INDUCTOR CHIP 27UH			
IC309	8-759-711-32	IC NJM2245M		L316	1-412-011-31	INDUCTOR CHIP 27UH			
IC310	8-759-932-67	IC BU4053BCF		L317	1-410-090-41	INDUCTOR 18mH			
IC311	8-759-008-67	IC MC14066BF		L319	1-408-421-00	INDUCTOR 100UH			
IC312	8-759-711-32	IC NJM2245M		L320	1-410-682-31	INDUCTOR 470UH			
IC313	8-759-287-89	IC MM1113XFF		L401	1-410-478-11	INDUCTOR 47UH			
IC314	8-759-287-89	IC MM1113XFF		L402	1-410-216-31	INDUCTOR CHIP 100UH			
IC315	8-759-932-67	IC BU4053BCF		L403	1-410-216-31	INDUCTOR CHIP 100UH			
IC316	8-759-084-76	IC MM1111XF		L404	1-410-216-31	INDUCTOR CHIP 100UH			
IC317	8-759-009-51	IC MC14538BF		L405	1-408-419-00	INDUCTOR 68UH			
IC318	8-759-009-67	IC MC14584BF		L406	1-408-419-00	INDUCTOR 68UH			
IC320	8-759-287-89	IC MM1113XFF		L407	1-408-413-00	INDUCTOR 22UH			
IC321	8-759-287-89	IC MM1113XFF		L408	1-408-413-00	INDUCTOR 22UH			
IC322	8-759-287-89	IC MM1113XFF		L409	1-410-214-31	INDUCTOR CHIP 68UH			
IC323	8-759-287-89	IC MM1113XFF		L500	1-459-155-00	COIL (WITH CORE) 45UH			
IC324	8-759-287-89	IC MM1113XFF		L501	1-407-365-00	COIL,CHOKE			
IC325	8-759-287-89	IC MM1113XFF		L502	1-407-365-00	COIL,CHOKE			
IC326	8-759-060-00	IC BA10324AF		L503	1-410-093-11	INDUCTOR 33mH			
IC327	8-759-008-67	IC MC14066BF		L504	1-410-666-31	INDUCTOR 18UH			
IC350	8-759-100-96	IC uPC4558G2		L505	1-410-671-31	INDUCTOR 47UH			
IC401	8-759-196-69	IC BA7655AF-E2		L506	1-416-239-11	COIL, CHOKE 3.00mH (14M4U/E/A)			
IC402	8-752-053-21	IC CXA1211M		L507	1-410-686-11	INDUCTOR 1mH			
IC403	8-759-008-67	IC MC14066BF		L508	1-412-530-31	INDUCTOR 27UH			
IC404	8-752-067-05	IC CXA1739S		L509	1-459-075-11	COIL,DYNAMIC CONVERSION CHOKE			
IC405	8-759-932-67	IC BU4053BCF		L511	1-459-105-21	COIL(WITH CORE)			
IC406	8-759-998-98	IC LM358D		L512	1-459-155-11	COIL (WITH CORE) 45UH			
IC407	8-759-008-67	IC MC14066BF		L513	1-412-447-11	INDUCTOR 3.9mH			
IC408	8-759-509-91	IC XRA10393F		L514	1-459-104-00	COIL, DUST CORE			
IC409	8-759-060-00	IC BA10324AF		L515	1-459-059-00	COIL,DUST CORE			
IC410	8-759-009-06	IC MC14052BF		L516	1-416-162-11	COIL, HORIZONTAL LINEARITY			
IC411	8-759-008-92	IC MC14024BF		L517	1-412-547-21	INDUCTOR 680UH			
IC412	8-759-932-67	IC BU4053BCF		<NEON LAMP>					
IC413	8-759-932-67	IC BU4053BCF		NL500	1-519-526-11	LAMP, NEON			
IC500	8-749-010-07	IC H8D7248		<TRANSISTOR>					
IC502	8-759-009-51	IC MC14538BF		Q101	8-729-027-59	TRANSISTOR DTC144EKA-T146			
IC503	8-759-009-51	IC MC14538BF		Q102	8-729-216-22	TRANSISTOR 2SA1162-G			
IC504	8-752-053-21	IC CXA1211M		Q103	8-729-216-22	TRANSISTOR 2SA1162-G			
IC505	8-759-520-07	IC XRA17812T		Q104	8-729-907-26	TRANSISTOR IMX1			
IC506	8-759-009-51	IC MC14538BF		Q105	8-729-027-38	TRANSISTOR DTA144EKA-T146			
IC507	8-759-100-60	IC uPC1377C		Q107	8-729-027-38	TRANSISTOR DTA144EKA-T146			
IC508	8-752-053-21	IC CXA1211M		Q108	8-729-422-29	TRANSISTOR 2SD601A-S			
IC509	8-759-998-98	IC LM358D		Q109	8-729-422-29	TRANSISTOR 2SD601A-S			
IC510	8-759-009-51	IC MC14538BF		Q110	8-729-422-29	TRANSISTOR 2SD601A-S			
<CHIP CONDUCTOR>						Q111	8-729-027-38	TRANSISTOR DTA144EKA-T146	
JR302	1-216-295-91	CONDUCTOR, CHIP		Q112	8-729-422-29	TRANSISTOR 2SD601A-S			
JR307	1-216-295-91	CONDUCTOR, CHIP		Q113	8-729-422-29	TRANSISTOR 2SD601A-S			
JR310	1-216-295-91	CONDUCTOR, CHIP		Q114	8-729-422-29	TRANSISTOR 2SD601A-S			
<COIL>						Q200	8-729-140-96	TRANSISTOR 2SD774-34	
L101	1-408-609-41	INDUCTOR 33UH		Q201	8-729-422-29	TRANSISTOR 2SD601A-S			
L102	1-408-417-00	INDUCTOR 47UH		Q300	8-729-422-29	TRANSISTOR 2SD601A-S			
L104	1-408-425-00	INDUCTOR 220UH		Q301	8-729-422-29	TRANSISTOR 2SD601A-S			
L105	1-410-482-31	INDUCTOR 100UH		Q302	8-729-216-22	TRANSISTOR 2SA1162-G			
L300	1-410-478-11	INDUCTOR 47UH		Q303	8-729-422-29	TRANSISTOR 2SD601A-S			
L301	1-408-411-00	INDUCTOR 15UH		Q305	8-729-422-29	TRANSISTOR 2SD601A-S			
L302	1-412-008-31	INDUCTOR CHIP 15UH		Q306	8-729-422-29	TRANSISTOR 2SD601A-S			
L303	1-408-416-00	INDUCTOR 39UH		Q307	8-729-422-29	TRANSISTOR 2SD601A-S			
L304	1-412-008-31	INDUCTOR CHIP 15UH		Q308	8-729-422-29	TRANSISTOR 2SD601A-S			
L305	1-410-196-11	INDUCTOR CHIP 2.2UH		Q309	8-729-422-37	TRANSISTOR 2SB709A-R			
L306	1-408-416-00	INDUCTOR 39UH		Q310	8-729-422-37	TRANSISTOR 2SB709A-R			
L307	1-408-411-00	INDUCTOR 15UH		Q311	8-729-422-37	TRANSISTOR 2SB709A-R			
L308	1-410-466-41	INDUCTOR 4.7UH		Q312	8-729-422-29	TRANSISTOR 2SD601A-S			
L309	1-410-470-11	INDUCTOR 10UH		Q313	8-729-422-37	TRANSISTOR 2SB709A-R			
L311	1-410-470-11	INDUCTOR 10UH		Q314	8-729-027-38	TRANSISTOR DTA144EKA-T146			
L312	1-412-011-31	INDUCTOR CHIP 27UH		Q315	8-729-422-37	TRANSISTOR 2SB709A-R			



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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
R108	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R315	1-216-099-00	METAL GLAZE 120K	5%	1/10W
R109	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R316	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R110	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R317	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R113	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R318	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R117	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R319	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R119	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R320	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R124	1-216-295-91	CONDUCTOR, CHIP			R321	1-216-051-00	METAL GLAZE 1.2K	5%	1/10W
R130	1-216-099-00	METAL GLAZE 120K	5%	1/10W	R322	1-216-035-00	METAL GLAZE 270	5%	1/10W
R132	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R323	1-216-109-00	METAL GLAZE 330K	5%	1/10W
R133	1-216-091-00	METAL GLAZE 56K	5%	1/10W	R324	1-216-101-00	METAL GLAZE 150K	5%	1/10W
R134	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R325	1-216-037-00	METAL GLAZE 330	5%	1/10W
R135	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R326	1-216-033-00	METAL GLAZE 220	5%	1/10W
R137	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R328	1-216-121-91	METAL GLAZE 1M	5%	1/10W
R140	1-216-033-00	METAL GLAZE 220	5%	1/10W	R329	1-216-055-00	METAL GLAZE 1.8K	5%	1/10W
R141	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R330	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R144	1-216-295-91	CONDUCTOR, CHIP			R331	1-216-093-00	METAL GLAZE 68K	5%	1/10W
R149	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R332	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R151	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	R333	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R154	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R334	1-216-093-00	METAL GLAZE 68K	5%	1/10W
R155	1-216-083-00	METAL GLAZE 27K	5%	1/10W	R335	1-216-083-00	METAL GLAZE 27K	5%	1/10W
R157	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R336	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R158	1-216-295-91	CONDUCTOR, CHIP			R337	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R159	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W	R338	1-216-091-00	METAL GLAZE 56K	5%	1/10W
R160	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	R339	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W
R162	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R340	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R163	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R341	1-216-673-11	METAL CHIP 8.2K	0.50%	1/10W
R164	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W	R342	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R165	1-216-295-91	CONDUCTOR, CHIP			R343	1-216-095-00	METAL GLAZE 82K	5%	1/10W
R167	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	R344	1-216-099-00	METAL GLAZE 120K	5%	1/10W
R168	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R345	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W
R169	1-216-107-00	METAL GLAZE 270K	5%	1/10W	R346	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R171	1-216-031-00	METAL GLAZE 180	5%	1/10W	R347	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R172	1-216-295-91	CONDUCTOR, CHIP			R348	1-216-031-00	METAL GLAZE 180	5%	1/10W
R177	1-216-214-00	METAL GLAZE 4.7K	5%	1/8W	R349	1-216-694-11	METAL CHIP 62K	0.50%	1/10W
R181	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R350	1-216-085-00	METAL GLAZE 33K	5%	1/10W
R184	1-216-649-11	METAL CHIP 820	0.50%	1/10W	R351	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R185	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R352	1-216-675-11	METAL CHIP 10K	0.50%	1/10W
R187	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	R353	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R189	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R354	1-216-123-11	METAL GLAZE 1.2M	5%	1/10W
R190	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R355	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W
R192	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R356	1-216-689-11	METAL GLAZE 39K	5%	1/10W
R195	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W	R357	1-216-121-91	METAL GLAZE 1M	5%	1/10W
R197	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	R358	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W
R199	1-216-295-91	CONDUCTOR, CHIP			R359	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R200	1-216-686-11	METAL CHIP 30K	0.50%	1/10W	R360	1-216-039-00	METAL GLAZE 390	5%	1/10W
R201	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R361	1-216-017-91	METAL GLAZE 47	5%	1/10W
R202	1-212-857-00	FUSIBLE 10	5%	1/4W	R362	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R203	1-260-095-11	CARBON 470	5%	1/2W	R363	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R204	1-260-072-11	CARBON 4.7	5%	1/2W	R364	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R205	1-216-647-11	METAL CHIP 680	0.50%	1/10W	R366	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R206	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R367	1-216-051-00	METAL GLAZE 1.2K	5%	1/10W
R207	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R368	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R208	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R371	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W
R209	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R372	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W
R210	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	R373	1-216-645-11	METAL CHIP 560	0.50%	1/10W
R211	1-249-393-11	CARBON 10	5%	1/4W	R374	1-216-647-11	METAL CHIP 680	0.50%	1/10W
R237	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R375	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W
R301	1-216-025-91	METAL GLAZE 100	5%	1/10W	R376	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R302	1-216-025-91	METAL GLAZE 100	5%	1/10W	R378	1-216-114-00	METAL GLAZE 510K	5%	1/10W
R303	1-216-025-91	METAL GLAZE 100	5%	1/10W	R379	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W
R304	1-216-025-91	METAL GLAZE 100	5%	1/10W	R380	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R305	1-216-295-91	CONDUCTOR, CHIP			R381	1-216-689-11	METAL GLAZE 39K	5%	1/10W
R306	1-216-295-91	CONDUCTOR, CHIP			R382	1-216-101-00	METAL GLAZE 150K	5%	1/10W
R307	1-216-115-00	METAL GLAZE 560K	5%	1/10W	R383	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R308	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R384	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R311	1-216-055-00	METAL GLAZE 1.8K	5%	1/10W	R385	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R312	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R386	1-216-091-00	METAL GLAZE 56K	5%	1/10W
R313	1-216-648-11	METAL CHIP 750	0.50%	1/10W	R387	1-216-029-00	METAL GLAZE 150	5%	1/10W
R314	1-216-099-00	METAL GLAZE 120K	5%	1/10W	R388	1-216-039-00	METAL GLAZE 390	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK					
R389	1-216-649-11	METAL CHIP	820	0.50%	1/10W	R464	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R390	1-249-393-11	CARBON	10	5%	1/4W	F	R465	1-216-025-91	METAL GLAZE	100	5%	1/10W
R391	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R466	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R393	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R467	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
R394	1-216-083-00	METAL GLAZE	27K	5%	1/10W	R468	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R395	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R469	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	
R396	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R470	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R397	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R471	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R398	1-216-105-91	METAL GLAZE	220K	5%	1/10W	R472	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R399	1-216-111-91	METAL GLAZE	390K	5%	1/10W	R473	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
R400	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R474	1-216-649-11	METAL CHIP	820	0.50%	1/10W	
R401	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R475	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R402	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R476	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R403	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	R477	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R404	1-216-029-00	METAL GLAZE	150	5%	1/10W	R478	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R406	1-216-083-00	METAL GLAZE	27K	5%	1/10W	R479	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R407	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R480	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R407	1-216-085-00	METAL GLAZE	33K	5%	1/10W	R481	1-216-033-00	METAL GLAZE	220	5%	1/10W	
			(14M2U/E/A)			R482	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R408	1-216-689-11	METAL CHIP	39K	0.50%	1/10W	R483	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R410	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	R484	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R411	1-216-033-00	METAL GLAZE	220	5%	1/10W	R485	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R412	1-216-089-91	METAL GLAZE	47K	5%	1/10W	R486	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	
R413	1-216-668-11	METAL CHIP	5.1K	0.50%	1/10W	R487	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W	
R414	1-216-662-11	METAL CHIP	3K	0.50%	1/10W	R488	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R416	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R489	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R417	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	R490	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R418	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R491	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R419	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R492	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R420	1-216-689-11	METAL GLAZE	39K	5%	1/10W	R493	1-216-295-91	CONDUCTOR, CHIP				
R422	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R494	1-216-696-11	METAL CHIP	75K	0.50%	1/10W	
R423	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R495	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R424	1-216-033-00	METAL GLAZE	220	5%	1/10W	R496	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R425	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R497	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W	
R426	1-216-039-00	METAL GLAZE	390	5%	1/10W	R498	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R427	1-216-033-00	METAL GLAZE	220	5%	1/10W	R499	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R428	1-216-097-91	METAL GLAZE	100K	5%	1/10W	R500	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R429	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R501	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R430	1-216-119-00	METAL GLAZE	820K	5%	1/10W	R502	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	
R431	1-216-097-91	METAL GLAZE	100K	5%	1/10W	R503	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	
R432	1-216-089-91	METAL GLAZE	47K	5%	1/10W	R504	1-216-111-91	METAL GLAZE	390K	5%	1/10W	
R434	1-216-109-00	METAL GLAZE	330K	5%	1/10W	R505	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R435	1-216-105-91	METAL GLAZE	220K	5%	1/10W	R506	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R436	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R507	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R437	1-216-097-91	METAL GLAZE	100K	5%	1/10W	R508	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R438	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R509	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R439	1-216-033-00	METAL GLAZE	220	5%	1/10W	R510	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R440	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R511	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R441	1-216-645-11	METAL CHIP	560	0.50%	1/10W	R512	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R442	1-216-647-11	METAL CHIP	680	0.50%	1/10W	R513	1-216-295-91	CONDUCTOR, CHIP				
R443	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R514	1-216-295-91	CONDUCTOR, CHIP				
R444	1-216-105-91	METAL GLAZE	220K	5%	1/10W	R515	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R445	1-216-095-00	METAL GLAZE	82K	5%	1/10W	R516	1-216-103-00	METAL GLAZE	180K	5%	1/10W	
R447	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	R517	1-214-888-00	METAL	10K	1%	1/2W	
R448	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R518	1-260-123-11	CARBON	100K	5%	1/2W	
R449	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R519	1-216-017-91	METAL GLAZE	47	5%	1/10W	
R450	1-216-121-91	METAL GLAZE	1M	5%	1/10W	R520	1-249-423-11	CARBON	3.3K	5%	1/4W	
R451	1-216-037-00	METAL GLAZE	330	5%	1/10W	R521	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R452	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R523	1-215-892-11	METAL OXIDE	1K	5%	2W	
R453	1-216-097-91	METAL GLAZE	100K	5%	1/10W	R524	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R455	1-216-085-00	METAL GLAZE	33K	5%	1/10W	R525	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R456	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R526	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R457	1-216-025-91	METAL GLAZE	100	5%	1/10W	R528	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R458	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R529	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R459	1-216-649-11	METAL CHIP	820	0.50%	1/10W	R530	1-216-367-11	METAL OXIDE	0.68	5%	2W	
R460	1-216-295-91	CONDUCTOR, CHIP				R531	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R462	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R532	1-215-920-11	METAL OXIDE	3.3K	5%	3W	
R463	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R533	1-247-723-71	CARBON	6.8K	5%	1/4W	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
R534	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R599	1-216-645-11	METAL CHIP 560	0.50% 1/10W
R535	1-249-448-11	CARBON 1.2	5%	1/4W F	R1103	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R536	1-216-101-00	METAL GLAZE 150K	5%	1/10W	R1104	1-216-699-11	METAL CHIP 100K	0.50% 1/10W
R537	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R1105	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R539	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R1106	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R540	1-216-113-00	METAL GLAZE 470K	5%	1/10W	R1107	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R541	1-249-383-11	CARBON 1.5	5%	1/4W F	R1108	1-216-681-11	METAL CHIP 18K	0.50% 1/10W
R542	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R1111	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R543	1-212-883-00	FUSIBLE 120	5%	1/4W F	R1112	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R544	1-216-095-00	METAL GLAZE 82K	5%	1/10W	R1113	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R545	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R1114	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R546	1-249-425-11	CARBON 4.7K	5%	1/4W F	R1115	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R547	1-216-091-00	METAL GLAZE 56K	5%	1/10W	R1116	1-216-677-11	METAL CHIP 12K	0.50% 1/10W
R548	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R1117	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R549	1-216-677-11	METAL CHIP 12K	0.50%	1/10W	R1118	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R550	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W	R1119	1-216-694-11	METAL CHIP 62K	0.50% 1/10W
R551	1-216-077-00	METAL GLAZE 15K	5%	1/10W	R1120	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R552	1-216-033-00	METAL GLAZE 220	5%	1/10W	R1123	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R553	1-216-083-00	METAL GLAZE 27K	5%	1/10W	R1124	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R554	1-216-095-00	METAL GLAZE 82K	5%	1/10W	R1125	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R555	1-216-692-11	METAL CHIP 51K	0.50%	1/10W	R1126	1-216-041-00	METAL GLAZE 470	5% 1/10W
R556	1-216-463-00	METAL OXIDE 12K	5%	2W F	R1128	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R558	1-215-868-00	METAL OXIDE 680	5%	1W F	R1129	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R559	1-216-105-91	METAL GLAZE 220K	5%	1/10W (14M2U/E/A)	R1130	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R559	1-216-109-00	METAL GLAZE 330K	5%	1/10W (14M4U/E/A)	R1131	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R560	1-216-091-00	METAL GLAZE 56K	5%	1/10W	R1132	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R561	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R1133	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R562	1-247-696-11	CARBON 47	5%	1/4W F (14M4U/E/A)	R1134	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R563	1-216-017-91	METAL GLAZE 47	5%	1/10W	R1136	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R564	1-216-107-00	METAL GLAZE 270K	5%	1/10W	R1137	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R565	1-216-033-00	METAL GLAZE 220	5%	1/10W	R1138	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R566	1-216-685-11	METAL CHIP 27K	0.50%	1/10W (14M2U/E/A)	R1139	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R566	1-216-691-11	METAL CHIP 47K	0.50%	1/10W (14M4U/E/A)	R1140	1-216-653-11	METAL CHIP 1.2K	0.50% 1/10W
R567	1-216-081-00	METAL GLAZE 22K	5%	1/10W	R1141	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R568	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R1142	1-216-653-11	METAL CHIP 1.2K	0.50% 1/10W
R569	1-260-114-11	CARBON 18K	5%	1/2W	R1143	1-216-653-11	METAL CHIP 1.2K	0.50% 1/10W
R571	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R1144	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R572	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W	R1145	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R573	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W	R1146	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R574	1-216-089-91	METAL GLAZE 47K	5%	1/10W (14M4U/E/A)	R1147	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R575	1-249-383-11	CARBON 1.5	5%	1/4W F	R1148	1-216-033-00	METAL GLAZE 220	5% 1/10W
R576	1-216-101-00	METAL GLAZE 150K	5%	1/10W	R1149	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R577	1-216-073-00	METAL GLAZE 10K	5%	1/10W (14M4U/E/A)	R1150	1-216-037-00	METAL GLAZE 330	5% 1/10W
R578	1-216-693-11	METAL CHIP 56K	0.50%	1/10W	R1151	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R580	1-216-105-91	METAL GLAZE 220K	5%	1/10W	R1155	1-216-133-00	METAL GLAZE 3.3M	5% 1/10W
R581	1-216-049-91	METAL GLAZE 1K	5%	1/10W (14M4U/E/A)	R1161	1-218-768-11	METAL CHIP 470K	0.50% 1/10W
R582	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R1163	1-216-033-00	METAL GLAZE 220	5% 1/10W
R583	1-216-039-00	METAL GLAZE 390	5%	1/10W	R1164	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R584	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W	R1165	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R585	1-216-033-00	METAL GLAZE 220	5%	1/10W	R1166	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R586	1-216-686-11	METAL CHIP 30K	0.50%	1/10W	R1167	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R587	1-216-675-11	METAL CHIP 10K	0.50%	1/10W	R1168	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R588	1-216-077-00	METAL GLAZE 15K	5%	1/10W	R1169	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R589	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W	R1170	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R590	1-216-081-00	METAL GLAZE 22K	5%	1/10W	R1171	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R591	1-216-683-11	METAL CHIP 22K	0.50%	1/10W	R1172	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R592	1-247-688-11	CARBON 10	5%	1/4W F	R1173	1-216-295-91	CONDUCTOR, CHIP	
R593	1-216-647-11	METAL CHIP 680	0.50%	1/10W	R1174	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R594	1-260-104-91	CARBON 2.7K	5%	1/2W	R1175	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R595	1-216-689-11	METAL GLAZE 39K	5%	1/10W	R1176	1-216-131-11	METAL GLAZE 2.7M	5% 1/10W
R596	1-214-754-00	METAL 11K	1%	1/4W F	R1177	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R597	1-249-417-11	CARBON 1K	5%	1/4W F	R1178	1-216-131-11	METAL GLAZE 2.7M	5% 1/10W
R598	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R1179	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
				R1180	1-216-089-91	METAL GLAZE 47K	5% 1/10W	
				R1181	1-216-131-11	METAL GLAZE 2.7M	5% 1/10W	
				R1182	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W	
				R1183	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W	
				R1184	1-216-131-11	METAL GLAZE 2.7M	5% 1/10W	
				R1185	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W	
				R1186	1-216-131-11	METAL GLAZE 2.7M	5% 1/10W	
				R1187	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W	
				R1188	1-216-131-11	METAL GLAZE 2.7M	5% 1/10W	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
R1192	1-216-131-11	METAL GLAZE 2.7M	5%	1/10W	R1365	1-216-131-11	METAL GLAZE 2.7M	5% 1/10W
R1193	1-216-025-91	METAL GLAZE 100	5%	1/10W	R1366	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1194	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R1367	1-216-660-11	METAL CHIP 2.4K	0.50% 1/10W
R1195	1-216-025-91	METAL GLAZE 100	5%	1/10W	R1368	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R1196	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R1369	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R1197	1-216-025-91	METAL GLAZE 100	5%	1/10W	R1370	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R1198	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R1371	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1199	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R1372	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1301	1-216-029-00	METAL GLAZE 150	5%	1/10W	R1373	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R1302	1-216-029-00	METAL GLAZE 150	5%	1/10W	R1374	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R1303	1-216-039-00	METAL GLAZE 390	5%	1/10W	R1375	1-216-645-11	METAL CHIP 560	0.50% 1/10W
R1304	1-216-689-11	METAL GLAZE 39K	5%	1/10W	R1376	1-216-647-11	METAL CHIP 680	0.50% 1/10W
R1305	1-216-033-00	METAL GLAZE 220	5%	1/10W	R1377	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R1306	1-216-645-11	METAL CHIP 560	0.50%	1/10W	R1378	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1307	1-216-091-00	METAL GLAZE 56K	5%	1/10W	R1379	1-216-037-00	METAL GLAZE 330	5% 1/10W
R1308	1-216-645-11	METAL CHIP 560	0.50%	1/10W	R1380	1-216-645-11	METAL CHIP 560	0.50% 1/10W
R1309	1-216-025-91	METAL GLAZE 100	5%	1/10W	R1381	1-216-647-11	METAL CHIP 680	0.50% 1/10W
R1311	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R1382	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1312	1-216-027-00	METAL GLAZE 120	5%	1/10W	R1383	1-216-681-11	METAL CHIP 18K	0.50% 1/10W
R1313	1-216-097-91	METAL GLAZE 100K	5%	1/10W	R1384	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R1314	1-216-081-00	METAL GLAZE 22K	5%	1/10W	R1385	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1315	1-216-025-91	METAL GLAZE 100	5%	1/10W	R1386	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R1316	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R1387	1-216-653-11	METAL CHIP 1.2K	0.50% 1/10W
R1317	1-216-033-00	METAL GLAZE 220	5%	1/10W	R1388	1-216-689-11	METAL CHIP 39K	0.50% 1/10W
R1318	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R1389	1-216-658-11	METAL CHIP 2K	0.50% 1/10W
R1319	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R1390	1-216-647-11	METAL CHIP 680	0.50% 1/10W
R1320	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R1391	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1321	1-216-649-11	METAL CHIP 820	0.50%	1/10W	R1392	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1322	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R1393	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R1324	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	R1394	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1325	1-216-652-11	METAL CHIP 1.1K	0.50%	1/10W	R1395	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R1326	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R1396	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R1327	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R1397	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1328	1-216-125-00	METAL GLAZE 1.5M	5%	1/10W	R1399	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1329	1-216-103-00	METAL GLAZE 180K	5%	1/10W	R1401	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R1330	1-216-081-00	METAL GLAZE 22K	5%	1/10W	R1402	1-216-295-91	CONDUCTOR, CHIP	
R1331	1-216-679-11	METAL CHIP 15K	0.50%	1/10W	R1403	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R1332	1-216-671-11	METAL CHIP 6.8K	0.50%	1/10W	R1404	1-216-681-11	METAL CHIP 18K	0.50% 1/10W
R1333	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R1405	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R1334	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W	R1406	1-216-653-11	METAL CHIP 1.2K	0.50% 1/10W
R1335	1-249-401-11	CARBON 47	5%	1/4W F	R1407	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1336	1-216-095-00	METAL GLAZE 82K	5%	1/10W	R1408	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1337	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	R1409	1-216-295-91	CONDUCTOR, CHIP	
R1338	1-216-647-11	METAL CHIP 680	0.50%	1/10W	R1410	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R1339	1-216-033-00	METAL GLAZE 220	5%	1/10W	R1411	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1340	1-216-033-00	METAL GLAZE 220	5%	1/10W	R1412	1-216-107-00	METAL GLAZE 270K	5% 1/10W
R1341	1-216-033-00	METAL GLAZE 220	5%	1/10W	R1413	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1342	1-216-083-00	METAL GLAZE 27K	5%	1/10W	R1414	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1343	1-216-037-00	METAL GLAZE 330	5%	1/10W	R1415	1-216-093-00	METAL GLAZE 68K	5% 1/10W
R1344	1-216-093-00	METAL GLAZE 68K	5%	1/10W	R1416	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1345	1-216-109-00	METAL GLAZE 330K	5%	1/10W	R1417	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1346	1-216-097-91	METAL GLAZE 100K	5%	1/10W	R1418	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1347	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R1419	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1348	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W	R1420	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1349	1-216-035-00	METAL GLAZE 270	5%	1/10W	R1421	1-216-649-11	METAL CHIP 820	0.50% 1/10W
R1350	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R1422	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R1351	1-216-033-00	METAL GLAZE 220	5%	1/10W	R1423	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1352	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R1424	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1353	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R1425	1-216-013-00	METAL GLAZE 33	5% 1/10W
R1354	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R1426	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1355	1-216-033-00	METAL GLAZE 220	5%	1/10W	R1427	1-216-681-11	METAL CHIP 18K	0.50% 1/10W
R1356	1-216-105-91	METAL GLAZE 220K	5%	1/10W	R1428	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1357	1-216-101-00	METAL GLAZE 150K	5%	1/10W	R1429	1-216-668-11	METAL CHIP 5.1K	0.50% 1/10W
R1358	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W	R1430	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1359	1-216-099-00	METAL GLAZE 120K	5%	1/10W	R1431	1-216-129-00	METAL GLAZE 2.2M	5% 1/10W
R1360	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R1432	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1361	1-216-113-00	METAL GLAZE 470K	5%	1/10W	R1433	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R1362	1-216-676-11	METAL CHIP 11K	0.50%	1/10W	R1434	1-216-645-11	METAL CHIP 560	0.50% 1/10W
R1363	1-216-113-00	METAL GLAZE 470K	5%	1/10W	R1435	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R1364	1-216-073-00	METAL GLAZE 10K	5%	1/10W				

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• The components identified by **☒** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifiés par une trame et une marque **☒** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **☒** are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
R1436	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R1508	1-216-083-00	METAL GLAZE 27K	5%
R1437	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W	R1509	1-216-093-00	METAL GLAZE 68K	5%
R1438	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R1510	1-216-077-00	METAL GLAZE 15K	5%
R1439	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W	R1511	1-216-360-11	METAL OXIDE 8.2	5%
					R1512	1-216-647-11	METAL CHIP 680	0.50% F
R1440	1-216-041-00	METAL GLAZE 470	5%	1/10W	R1513	1-247-752-11	CARBON 1K	5% 1/2W F
R1441	1-216-033-00	METAL GLAZE 220	5%	1/10W	R1514	1-247-711-11	CARBON 680	5% 1/4W F
R1442	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R1515	1-216-350-11	METAL OXIDE 1.2	5% 1W F
R1443	1-216-013-00	METAL GLAZE 33	5%	1/10W	R1516	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R1444	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R1517	1-216-109-00	METAL GLAZE 330K	5% 1/10W
R1445	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W	R1518	1-215-867-00	METAL OXIDE 470	5% 1W F
R1446	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W	R1519	1-216-355-11	METAL OXIDE 3.3	5% 1W F
R1447	1-216-081-00	METAL GLAZE 22K	5%	1/10W	R1520	1-216-027-00	METAL GLAZE 120	5% 1/10W
R1448	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R1521	1-216-029-00	METAL GLAZE 150	5% 1/10W
R1449	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R1523	1-216-350-11	METAL OXIDE 1.2	5% 1W F
R1450	1-216-129-00	METAL GLAZE 2.2M	5%	1/10W	R1524	1-216-427-00	METAL OXIDE 120	5% 1W F
R1451	1-216-093-00	METAL GLAZE 68K	5%	1/10W	R1525	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R1452	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R1526	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1453	1-216-013-00	METAL GLAZE 33	5%	1/10W	R1527	1-249-413-11	CARBON 470	5% 1/4W F
R1454	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R1528	1-215-869-11	METAL OXIDE 1K	5% 1W F
R1455	1-216-113-00	METAL GLAZE 470K	5%	1/10W	R1529	1-202-829-11	SOLID 8.2K	20% 1/2W
R1456	1-216-129-00	METAL GLAZE 2.2M	5%	1/10W	R1530	1-216-115-00	METAL GLAZE 560K	5% 1/10W
R1457	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R1531	1-247-697-11	CARBON 56	5% 1/4W F
R1458	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R1532	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R1459	1-216-133-00	METAL GLAZE 3.3M	5%	1/10W	R1533	1-249-414-11	CARBON 560	5% 1/4W F
R1460	1-216-097-91	METAL GLAZE 100K	5%	1/10W	R1534	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W
R1461	1-216-645-11	METAL CHIP 560	0.50%	1/10W	R1536 A	1-249-389-11	METAL CHIP	1/10W
R1462	1-216-645-11	METAL CHIP 560	0.50%	1/10W	R1537	1-249-389-11	CARBON 4.7	5% 1/4W F
R1463	1-216-645-11	METAL CHIP 560	0.50%	1/10W	R1538	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1464	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R1539	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1465	1-216-097-91	METAL GLAZE 100K	5%	1/10W				(14M4U/E/A)
R1466	1-216-055-00	METAL GLAZE 1.8K	5%	1/10W	R1540	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R1467	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R1541	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1468	1-216-091-00	METAL GLAZE 56K	5%	1/10W	R1542	1-247-692-71	CARBON 22	5% 1/4W F
R1469	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R1543	1-216-027-00	METAL GLAZE 120	5% 1/10W
R1470	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R1544	1-216-393-00	METAL OXIDE 2.2	5% 3W F
R1471	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R1547	1-216-393-00	METAL OXIDE 2.2	5% 3W F
R1472	1-216-085-00	METAL GLAZE 33K	5%	1/10W	R1548	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1473	1-216-081-00	METAL GLAZE 22K	5%	1/10W	R1549	1-260-094-11	CARBON 390	5% 1/2W
R1475	1-216-677-11	METAL CHIP 12K	0.50%	1/10W	R1550	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R1476	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W	R1551	1-249-393-11	CARBON 10	5% 1/4W F
R1477	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R1552	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R1478	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	R1553	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R1480	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R1554	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R1481	1-216-115-00	METAL GLAZE 560K	5%	1/10W	R1555	1-216-295-91	CONDUCTOR, CHIP	
R1482	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R1556	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R1483	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R1557	1-218-760-11	METAL CHIP 220K	0.50% 1/10W
R1484	1-216-081-00	METAL GLAZE 22K	5%	1/10W	R1558	1-249-393-11	CARBON 10	5% 1/4W F
R1485	1-216-113-00	METAL GLAZE 470K	5%	1/10W	R1559	1-249-393-11	CARBON 10	5% 1/4W F
R1486	1-216-097-91	METAL GLAZE 100K	5%	1/10W	R1560	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1487	1-216-097-91	METAL GLAZE 100K	5%	1/10W	R1567	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1488	1-216-083-00	METAL GLAZE 27K	5%	1/10W	R1568	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1489	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W	R1569	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1490	1-216-035-00	METAL GLAZE 270	5%	1/10W	R1570	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1491	1-216-035-00	METAL GLAZE 270	5%	1/10W	R1571	1-216-103-00	METAL GLAZE 180K	5% 1/10W
R1492	1-216-035-00	METAL GLAZE 270	5%	1/10W	R1573	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1493	1-216-083-00	METAL GLAZE 27K	5%	1/10W	R1574	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1494	1-216-081-00	METAL GLAZE 22K	5%	1/10W	R1575	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1495	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R1576	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1496	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R1577	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1498	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R1578	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1499	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R1579	1-216-689-11	METAL CHIP 39K	0.50% 1/10W
R1500	1-216-647-11	METAL CHIP 680	0.50%	1/10W	R1580	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1501	1-216-075-00	METAL GLAZE 12K	5%	1/10W	R1581	1-208-612-11	METAL OXIDE 10M	5% 1W
R1502	1-260-105-11	CARBON 3.3K	5%	1/2W	R1582	1-208-610-11	METAL OXIDE 2M	5% 1W
R1503	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W	R1583	1-212-998-00	FUSIBLE 470	5% 1/2W F
R1504	1-216-686-11	METAL CHIP 30K	0.50%	1/10W				(14M4U/E/A)
R1505	1-247-688-11	CARBON 10	5%	1/4W F				(14M4U/E/A)
R1506	1-216-033-00	METAL GLAZE 220	5%	1/10W				(14M4U/E/A)
R1507	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W				(14M4U/E/A)

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK					
R1589	1-216-387-11	METAL OXIDE	0.68	5%	3W	F	R2367	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R1595	1-216-101-00	METAL GLAZE	150K	5%	1/10W		R2368	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1596	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R2369	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1597	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R2371	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1598	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		R2372	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1599	1-202-830-00	SOLID	10K	20%	1/2W	(14M4U/E/A)	R2374	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2300	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R2375	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2301	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R2376	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2302	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W		R2377	1-216-033-00	METAL GLAZE	220	5%	1/10W
R2303	1-216-093-00	METAL GLAZE	68K	5%	1/10W		R2378	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2304	1-216-105-91	METAL GLAZE	220K	5%	1/10W		R2379	1-216-033-00	METAL GLAZE	220	5%	1/10W
R2305	1-216-085-00	METAL GLAZE	33K	5%	1/10W		R2380	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2306	1-216-089-91	METAL GLAZE	47K	5%	1/10W		R2381	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2307	1-216-033-00	METAL GLAZE	220	5%	1/10W		R2382	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2308	1-216-103-00	METAL GLAZE	180K	5%	1/10W		R2383	1-216-033-00	METAL GLAZE	220	5%	1/10W
R2309	1-216-049-91	METAL GLAZE	1K	5%	1/10W		R2384	1-216-689-11	METAL GLAZE	39K	5%	1/10W
R2310	1-216-095-00	METAL GLAZE	82K	5%	1/10W		R2385	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2311	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R2386	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2312	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W		R2387	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2313	1-216-049-91	METAL GLAZE	1K	5%	1/10W		R2388	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2314	1-216-645-11	METAL CHIP	560	0.50%	1/10W		R2389	1-216-033-00	METAL GLAZE	220	5%	1/10W
R2315	1-216-679-11	METAL CHIP	15K	0.50%	1/10W		R2390	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R2316	1-216-081-00	METAL GLAZE	22K	5%	1/10W		R2391	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R2317	1-216-049-91	METAL GLAZE	1K	5%	1/10W		R2392	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2318	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W		R2393	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2319	1-216-093-00	METAL GLAZE	68K	5%	1/10W		R2394	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R2320	1-216-677-11	METAL CHIP	12K	0.50%	1/10W		R2396	1-216-041-00	METAL GLAZE	470	5%	1/10W
R2321	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		R2397	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R2322	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R2398	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R2323	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		R2399	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2324	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R2401	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R2325	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W		R2502	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R2326	1-216-041-00	METAL GLAZE	470	5%	1/10W		R2503	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2327	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W		R2504	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2328	1-216-049-91	METAL GLAZE	1K	5%	1/10W		R2504	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R2329	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W		R2551	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R2330	1-216-049-91	METAL GLAZE	1K	5%	1/10W		R2552	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R2331	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W		R2553	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R2332	1-216-049-91	METAL GLAZE	1K	5%	1/10W		R2555	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R2333	1-216-089-91	METAL GLAZE	47K	5%	1/10W		R2556	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R2334	1-216-041-00	METAL GLAZE	470	5%	1/10W		R2557	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R2335	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W		R2558	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R2336	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R2559	1-216-039-00	METAL GLAZE	390	5%	1/10W
R2337	1-216-037-00	METAL GLAZE	330	5%	1/10W		R2560	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R2338	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R2561	1-216-001-00	METAL GLAZE	10	5%	1/10W
R2339	1-216-037-00	METAL GLAZE	330	5%	1/10W		R2562	1-216-001-00	METAL GLAZE	10	5%	1/10W
R2340	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R2563	1-249-421-11	CARBON	2.2K	5%	1/4W
R2341	1-216-037-00	METAL GLAZE	330	5%	1/10W		R3301	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2342	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W		R3302	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2343	1-216-081-00	METAL GLAZE	22K	5%	1/10W		R3303	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2344	1-216-121-91	METAL GLAZE	1M	5%	1/10W		R3304	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2345	1-216-681-11	METAL CHIP	18K	0.50%	1/10W		R3305	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R2346	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W		R3306	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R2347	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W		R3308	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2348	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W		R3309	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2349	1-216-679-11	METAL CHIP	15K	0.50%	1/10W		R3310	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2350	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W		R3311	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R2351	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W		R3312	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R2352	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W		R3317	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R2353	1-216-041-00	METAL GLAZE	470	5%	1/10W		R3320	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R2354	1-216-025-91	METAL GLAZE	100	5%	1/10W		R3323	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2355	1-216-091-00	METAL GLAZE	56K	5%	1/10W		R3333	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R2356	1-216-025-91	METAL GLAZE	100	5%	1/10W		R3334	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2357	1-216-099-00	METAL GLAZE	120K	5%	1/10W		R3335	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R2358	1-216-081-00	METAL GLAZE	22K	5%	1/10W		R3337	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R2359	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R3338	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R2360	1-216-025-91	METAL GLAZE	100	5%	1/10W		R3339	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R2361	1-216-687-11	METAL CHIP	33K	0.50%	1/10W							
R2362	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W							
R2363	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W							
R2364	1-216-025-91	METAL GLAZE	100	5%	1/10W							
R2365	1-216-687-11	METAL CHIP	33K	0.50%	1/10W							
R2366	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W							

A **G**

Les composants identifiés par une trame et une marque **Δ** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **Δ** are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R3340	1-216-099-00	METAL GLAZE 120K	5%	1/10W			<TEST PIN>
R3344	1-216-081-00	METAL GLAZE 22K	5%	1/10W	TP300	* 1-535-877-22	CHIP, CHECKER
R3345	1-216-033-00	METAL GLAZE 220	5%	1/10W	TP301	* 1-535-877-22	CHIP, CHECKER
R3346	1-216-025-91	METAL GLAZE 100	5%	1/10W	TP305	* 1-535-877-22	CHIP, CHECKER
R3347	1-216-025-91	METAL GLAZE 100	5%	1/10W	TP306	* 1-535-877-22	CHIP, CHECKER
R3348	1-216-025-91	METAL GLAZE 100	5%	1/10W	TP307	* 1-535-877-22	CHIP, CHECKER
R3349	1-216-025-91	METAL GLAZE 100	5%	1/10W	TP311	* 1-535-877-22	CHIP, CHECKER
R3350	1-216-113-00	METAL GLAZE 470K	5%	1/10W	TP312	* 1-535-877-22	CHIP, CHECKER
R3351	1-216-119-00	METAL GLAZE 820K	5%	1/10W	TP401	* 1-535-877-22	CHIP, CHECKER
R3355	1-216-089-91	METAL GLAZE 47K	5%	1/10W	TP402	* 1-535-877-22	CHIP, CHECKER
R3356	1-216-051-00	METAL GLAZE 1.2K	5%	1/10W	TP403	* 1-535-877-22	CHIP, CHECKER
R3357	1-216-051-00	METAL GLAZE 1.2K	5%	1/10W	TP501	* 1-535-877-22	CHIP, CHECKER
R3358	1-216-051-00	METAL GLAZE 1.2K	5%	1/10W	TP502	* 1-535-877-22	CHIP, CHECKER
R3359	1-216-081-00	METAL GLAZE 22K	5%	1/10W	TP503	* 1-535-877-22	CHIP, CHECKER
R3360	1-216-073-00	METAL GLAZE 10K	5%	1/10W	TP504	* 1-535-877-22	CHIP, CHECKER
R3361	1-216-089-91	METAL GLAZE 47K	5%	1/10W			<CRYSTAL>
R3362	1-216-049-91	METAL GLAZE 1K	5%	1/10W	X101	1-579-175-11	VIBRATOR, CERAMIC
R3363	1-216-049-91	METAL GLAZE 1K	5%	1/10W	X300	1-577-259-11	VIBRATOR, CRYSTAL
R3364	1-216-073-00	METAL GLAZE 10K	5%	1/10W	X300	3-741-396-01	INSULATOR
R3376	1-216-081-00	METAL GLAZE 22K	5%	1/10W	X301	1-527-722-00	VIBRATOR, CRYSTAL
R3377	1-216-107-00	METAL GLAZE 270K	5%	1/10W	X301	3-741-396-01	INSULATOR
R3378	1-216-115-00	METAL GLAZE 560K	5%	1/10W			
R3381	1-216-041-00	METAL GLAZE 470	5%	1/10W			
R3382	1-216-645-11	METAL CHIP 560	0.50%	1/10W			
R3383	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W			
R3384	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W			*****
R3385	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W			*****
R3386	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W			* A-1316-302-A G BOARD, COMPLETE
R3390	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W			*****
R3394	1-216-089-91	METAL GLAZE 47K	5%	1/10W			
R3395	1-216-049-91	METAL GLAZE 1K	5%	1/10W			1-533-223-11 HOLDER, FUSE
R3396	1-216-041-00	METAL GLAZE 470	5%	1/10W			* 4-374-846-11 COVER, CAPACITOR, CAP TYPE
R3398	1-216-685-11	METAL CHIP 27K	0.50%	1/10W			4-382-854-11 SCREW (M3X10), P, SW (+)
R4401	1-216-085-00	METAL GLAZE 33K	5%	1/10W			7-322-065-19 RUBBER, SILICON RTV (KE490W)
R4402	1-216-113-00	METAL GLAZE 470K	5%	1/10W			<CAPACITOR>
R4404	1-216-073-00	METAL GLAZE 10K	5%	1/10W	C602	1-130-711-00	FILM 0.22MF 20% 250V
R4405	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W	C603	1-130-711-00	FILM 0.22MF 20% 250V
R4407	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	C604	1-113-924-11	CERAMIC 0.0047MF 20% 250V
R4408	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W	C605	1-113-924-11	CERAMIC 0.0047MF 20% 250V
R4409	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W	C606	1-113-924-11	CERAMIC 0.0047MF 20% 250V
R4410	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W			
R4411	1-216-113-00	METAL GLAZE 470K	5%	1/10W	C607	1-113-924-11	CERAMIC 0.0047MF 20% 250V
R4412	1-216-113-00	METAL GLAZE 470K	5%	1/10W	C608	1-113-924-11	CERAMIC 0.0047MF 20% 250V
R4413	1-216-295-91	CONDUCTOR, CHIP			C609	1-113-924-11	CERAMIC 0.0047MF 20% 250V
R4414	1-216-295-91	CONDUCTOR, CHIP			C610	1-113-924-11	CERAMIC 0.0047MF 20% 250V
R4415	1-216-295-91	CONDUCTOR, CHIP			C611	1-113-924-11	CERAMIC 0.0047MF 20% 250V
R4416	1-216-295-91	CONDUCTOR, CHIP					
					C612	1-137-484-11	FILM 0.47MF 10% 630V
					C613	1-137-484-11	FILM 0.47MF 10% 630V
					C614	1-129-718-00	FILM 0.022MF 10% 630V
					C615	1-136-619-11	FILM 0.0016MF 3% 2KV
					C616	1-107-909-11	ELECT 47MF 20% 35V
RV501	1-223-102-00	RES, ADJ, WIREWOUND 120			C617	1-107-430-91	CERAMIC 0.0033MF 10% 1KV
					C618	1-107-906-11	ELECT 10MF 20% 50V
					C619	1-107-911-11	ELECT 220MF 20% 50V
					C621	1-117-791-11	ELECT 1000MF 20% 160V
T300	1-406-781-11	COIL			C622	1-102-038-00	CERAMIC 0.001MF 500V
T500	1-426-668-11	TRANSFORMER, FERRITE (HDT)					
T501	Δ 1-433-233-11	TRANSFORMER ASSY, FLYBACK (14M4U/E/A)			C623	1-107-900-51	ELECT 4700MF 20% 35V
T501	Δ 1-433-232-11	TRANSFORMER ASSY, FLYBACK (14M2U/E/A)			C624	1-102-038-00	CERAMIC 0.001MF 500V
T501	* 4-058-301-01	RING, SHORT			C625	1-107-900-51	ELECT 4700MF 20% 35V
T502	7-685-663-79	SCREW +BVT 4X16 TYPE2 IT-3			C626	1-102-038-00	CERAMIC 0.001MF 500V
T502	1-413-059-00	TRANSFORMER, FERRITE (DFT) (14M4U/E/A)			C627	1-107-900-51	ELECT 4700MF 20% 35V
					C628	1-102-038-00	CERAMIC 0.001MF 500V
					C629	1-107-891-11	ELECT 3300MF 20% 25V
					C630	1-126-964-11	ELECT 10MF 20% 50V
					C631	1-136-853-11	FILM 0.56MF 5% 200V
					C632	1-107-492-11	ELECT 47MF 20% 160V
					C633	1-107-885-11	ELECT 3300MF 20% 16V
TH500	1-807-970-11	THERMISTOR			C634	1-107-911-11	ELECT 220MF 20% 50V
					C636	1-107-909-11	ELECT 47MF 20% 50V
					C637	1-107-910-11	ELECT 100MF 20% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK		REF. NO.	PART NO.	DESCRIPTION	REMARK				
C638	1-137-484-11	FILM	0.47MF	10%	630V		Q603	8-729-303-61	TRANSISTOR 2SC3851-G			
C2601	1-102-038-00	CERAMIC	0.001MF	500V		<RESISTOR>						
<CONNECTOR>												
CN601	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	R601	1-202-719-00	SOLID	1M	20%	1/2W				
CN602	* 1-695-561-11	PIN, CONNECTOR (PC BOARD) 7P	R602	1-216-491-11	METAL OXIDE	56K	5%	3W	F			
CN603	* 1-508-765-00	PIN, CONNECTOR (5mm PITCH) 3P	R603	1-216-490-11	METAL OXIDE	39K	5%	3W	F			
CN605	* 1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P	R604	1-249-418-11	CARBON	1.2K	5%	1/4W				
CN606	* 1-564-506-11	PLUG, CONNECTOR 3P	R605	1-249-415-11	CARBON	680	5%	1/4W				
CN607	* 1-564-509-11	PLUG, CONNECTOR 6P	R606	1-207-642-00	WIREWOUND	0.15	10%	3W	F			
CN609	1-508-786-00	PIN, CONNECTOR (5mm PITCH) 2P	R607	1-249-426-11	CARBON	5.6K	5%	1/4W				
			R608	1-249-428-11	CARBON	8.2K	5%	1/4W				
			R609	1-249-428-11	CARBON	8.2K	5%	1/4W				
			R610	1-249-428-11	CARBON	8.2K	5%	1/4W				
<DIODE>												
D601	8-719-510-53	DIODE D4SB60L	R611	1-249-417-11	CARBON	1K	5%	1/4W	F			
D605	8-719-979-85	DIODE EGP20G	R612	1-249-404-00	CARBON	82	5%	1/4W				
D606	8-719-988-55	DIODE RGP15K-6179	R613	1-249-419-11	CARBON	1.5K	5%	1/4W				
D607	8-719-300-33	DIODE RU-3AM	R614	1-249-385-11	CARBON	2.2	5%	1/4W	F			
D608	8-719-911-19	DIODE ISS119-25	R615	1-202-727-00	SOLID	4.7M	10%	1/2W				
D609	8-719-300-33	DIODE RU-3AM	R617	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F			
D610	8-719-029-04	DIODE D5L60	R618	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F			
D612	8-719-045-48	DIODE FML-G12S	R619	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F			
D613	8-719-979-85	DIODE EGP20G	R620	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F			
D614	8-719-045-48	DIODE FML-G12S	R621	1-215-877-11	METAL OXIDE	22K	5%	1W	F			
D615	8-719-979-85	DIODE EGP20G	R622	1-249-401-11	CARBON	47	5%	1/4W	F			
D616	8-719-054-32	DIODE ERA15-06	R623	1-249-417-11	CARBON	1K	5%	1/4W				
D617	8-719-110-44	DIODE RD16ESB1	R626	1-247-895-91	CARBON	470K	5%	1/4W				
D618	8-719-979-85	DIODE EGP20G	R627	1-216-490-11	METAL OXIDE	39K	5%	3W	F			
			R628	1-216-491-11	METAL OXIDE	56K	5%	3W	F			
<FERRITE BEAD>												
FB601	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	R629	1-202-727-00	SOLID	4.7M	10%	1/2W				
FB602	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	R630	1-216-490-11	METAL OXIDE	39K	5%	3W	F			
FB603	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	R631	1-249-412-11	CARBON	390	5%	1/4W	F			
FB604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	R632	1-249-401-11	CARBON	47	5%	1/4W	F			
FB605	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	R1602	1-202-842-11	SOLID	220K	20%	1/2W				
FB606	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	R1603	1-202-842-11	SOLID	220K	20%	1/2W				
FB607	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	<RELAY>									
FB608	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	RY601	1-515-738-11	RELAY							
FB609	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	<TRANSFORMER>									
FB610	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	T601	1-426-716-11	TRANSFORMER, LINE FILTER (LFT)							
FB611	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	T602	1-426-716-11	TRANSFORMER, LINE FILTER (LFT)							
FB612	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	T603	1-431-245-11	TRANSFORMER, CONVERTER (SRT)							
FB613	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	<THERMISTOR>									
<IC>												
IC601	4-058-250-01	SHEET, INSULATING	THP601	1-808-059-31	THERMISTOR, POSITIVE							
IC601	8-749-925-03	IC STR-M6524	<TEST PIN>									
IC602	8-749-010-47	IC STR-S3115	TP1601	1-536-354-00	POST PIN							
IC603	8-759-701-56	IC NJM78M05FA	<VARISTOR>									
IC604	8-759-231-53	IC TA7805S	VDR601	1-809-942-71	VARISTOR							
IC605	8-759-231-58	IC TA7812S	VDR602	1-809-942-71	VARISTOR							
<COIL>												
L601	1-411-215-11	COIL, CHOKE 200UH										
L1601	1-410-679-31	INDUCTOR 270UH										
L1602	1-421-421-00	COIL, CHOKE										
L2601	1-459-155-00	COIL (WITH CORE) 45UH										
<PHOTO COUPLER>												
PH601	8-749-923-50	PHOTO COUPLER PC111YS										
<TRANSISTOR>												
Q601	8-729-140-96	TRANSISTOR 2SD774-34										

C

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
* A-1331-627-A	C BOARD, COMPLETE			Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		
	*****			Q703	8-729-119-78	TRANSISTOR 2SC2785-HFE		
		(PVM-14M4U/E/A)		Q704	8-729-200-17	TRANSISTOR 2SA1091-O		
* A-1331-631-A	C BOARD, COMPLETE			Q705	8-729-200-17	TRANSISTOR 2SA1091-O		
	*****			Q706	8-729-200-17	TRANSISTOR 2SA1091-O		
		(PVM-14M2U/E/A)		Q710	8-729-200-17	TRANSISTOR 2SA1091-O		
7-682-949-01	SCREW +PSW 3X10			Q711	8-729-200-17	TRANSISTOR 2SA1091-O		
				Q712	8-729-200-17	TRANSISTOR 2SA1091-O		
				Q713	8-729-255-12	TRANSISTOR 2SC2551-O		
		<CAPACITOR>						
C701	1-102-157-00	CERAMIC	560PF	10%	500V	Q714	8-729-255-12	TRANSISTOR 2SC2551-O
C702	1-102-157-00	CERAMIC	560PF	10%	500V	Q715	8-729-119-78	TRANSISTOR 2SC2785-HFE
C703	1-102-157-00	CERAMIC	560PF	10%	500V	Q716	8-729-119-78	TRANSISTOR 2SC2785-HFE
C704	1-102-121-00	CERAMIC	0.0022MF	10%	50V	Q717	8-729-119-78	TRANSISTOR 2SC2785-HFE
C705	1-104-665-11	ELECT	100MF	20%	16V			
C706	1-102-074-00	CERAMIC	0.001MF	10%	50V			
C707	1-162-116-00	CERAMIC	680PF	10%	2KV			
C708	1-136-601-11	FILM	0.01MF	5%	630V	R702	1-247-903-00	CARBON
C710	1-101-880-00	CERAMIC	47PF	5%	50V	R704	1-215-405-00	METAL
C711	1-101-880-00	CERAMIC	47PF	5%	50V	R705	1-215-405-00	METAL
C712	1-101-880-00	CERAMIC	47PF	5%	50V	R706	1-215-405-00	METAL
C713	1-107-651-11	ELECT	4.7MF	20%	250V	R707	1-249-431-11	CARBON
C714	1-102-976-00	CERAMIC	180PF	5%	50V	R708	1-249-431-11	CARBON
C715	1-102-976-00	CERAMIC	180PF	5%	50V	R709	1-249-431-11	CARBON
C716	1-102-976-00	CERAMIC	180PF	5%	50V	R710	1-215-391-00	METAL
C717	1-107-372-11	MYLAR	0.22MF	10%	200V	R711	1-215-394-00	METAL
C718	1-107-372-11	MYLAR	0.22MF	10%	200V	R712	1-215-392-00	METAL
C720	1-106-383-00	MYLAR	0.047MF	10%	200V	R715	1-202-818-00	SOLID
C734	1-102-973-00	CERAMIC	100PF	5%	50V	R716	1-216-486-00	METAL OXIDE
C735	1-102-816-00	CERAMIC	120PF	5%	50V	R717	1-202-818-00	SOLID
C736	1-102-816-00	CERAMIC	120PF	5%	50V	R718	1-216-486-00	METAL OXIDE
C740	1-162-114-00	CERAMIC	0.0047MF		2KV	R719	1-202-818-00	SOLID
			(14M4U/E/A)	R720	1-216-486-00	METAL OXIDE		
				R722	1-202-838-00	SOLID		
				R722	1-202-883-11	SOLID		
CN701	* 1-564-511-11	PLUG, CONNECTOR 8P		R723	1-202-838-00	SOLID		
CN702	* 1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P		R724	1-202-842-11	SOLID		
CN703	1-695-915-11	TAB (CONTACT)		R725	1-202-719-00	SOLID		
CN704	1-695-915-11	TAB (CONTACT) (14M4U/E/A)		R725	1-202-883-11	SOLID		
		<CONNECTOR>		R731	1-247-815-91	CARBON		
D701	8-719-911-19	DIODE 1SS119-25		R732	1-247-815-91	CARBON		
D702	8-719-911-19	DIODE 1SS119-25		R733	1-247-815-91	CARBON		
D703	8-719-911-19	DIODE 1SS119-25		R734	1-249-409-11	CARBON		
D704	8-719-911-19	DIODE 1SS119-25		R735	1-249-409-11	CARBON		
D705	8-719-911-19	DIODE 1SS119-25		R736	1-249-409-11	CARBON		
D706	8-719-911-19	DIODE 1SS119-25		R737	1-247-807-31	CARBON		
D707	8-719-901-83	DIODE 1SS83		R738	1-247-807-31	CARBON		
D708	8-719-901-83	DIODE 1SS83		R739	1-247-807-31	CARBON		
D709	8-719-901-83	DIODE 1SS83		R740	1-249-429-11	CARBON		
D713	8-719-901-83	DIODE 1SS83		R741	1-249-429-11	CARBON		
D715	8-719-901-83	DIODE 1SS83		R742	1-249-429-11	CARBON		
D716	8-719-901-83	DIODE 1SS83		R744	1-249-429-11	CARBON		
D717	8-719-901-83	DIODE 1SS83		R745	1-249-429-11	CARBON		
		<DIODE>		R746	1-215-879-11	METAL OXIDE		
				R747	1-247-725-11	CARBON		
J701	1-251-116-11	SOCKET, PICTURE TUBE (14M4U/E/A)		R748	1-249-923-11	CARBON		
J701	1-526-819-11	SOCKET, PICTURE TUBE (14M2U/E/A)		R749	1-215-902-11	METAL OXIDE		
		<JACK>		R750	1-249-400-11	CARBON		
				R751	1-247-887-00	CARBON		
		<COIL>		R752	1-247-887-00	CARBON		
L701	1-410-667-31	INDUCTOR 22UH		R753	1-247-887-00	CARBON		
L705	1-412-532-11	INDUCTOR 39UH (14M2U/E/A)						
L705	1-412-534-31	INDUCTOR 56UH (14M4U/E/A)						
		<TRANSISTOR>						
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV707	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		
				RV708	1-230-619-11	RES, ADJ, METAL GLAZE 110M		
						(14M2U/E/A)		
						(14M2U/E/A)		
		<VARIABLE RESISTOR>						

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

C H J X S

REF. NO.	PART NO.	DESCRIPTION	REMARK
RV708	1-241-714-11	RES, ADJ, METAL FILM 110M (14M4U/E/A)	
RV709	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	

<SPARK GAP>

SG701	1-519-422-11	GAP, SPARK (14M4U/E/A)
SG702	1-519-422-11	GAP, SPARK (14M4U/E/A)
SG703	1-519-422-11	GAP, SPARK (14M4U/E/A)
SG704	1-519-422-11	GAP, SPARK (14M4U/E/A)

* A-1372-302-A H BOARD, COMPLETE

* 4-348-208-00 HOLDER, LED

<CONNECTOR>

CN105	* 1-564-527-11	PLUG, CONNECTOR 12P
CN106	* 1-564-526-11	PLUG, CONNECTOR 11P

<DIODE>

D2102	8-719-920-05	DIODE SLP281C-50
D2103	8-719-812-32	DIODE TLY123
D2104	8-719-991-33	DIODE 1SS133T-77

<RESISTOR>

R2101	1-249-419-11	CARBON	1.5K	5%	1/4W
R2107	1-249-430-11	CARBON	12K	5%	1/4W
R2136	1-249-414-11	CARBON	560	5%	1/4W
R2137	1-249-414-11	CARBON	560	5%	1/4W
R2138	1-249-414-11	CARBON	560	5%	1/4W
R2139	1-249-414-11	CARBON	560	5%	1/4W
R2140	1-249-414-11	CARBON	560	5%	1/4W
R2141	1-249-414-11	CARBON	560	5%	1/4W
R2142	1-249-414-11	CARBON	560	5%	1/4W
R2143	1-249-414-11	CARBON	560	5%	1/4W
R2144	1-249-414-11	CARBON	560	5%	1/4W
R2145	1-249-414-11	CARBON	560	5%	1/4W
R2147	1-215-427-00	METAL	1.8K	1%	1/4W
R2148	1-215-419-00	METAL	820	1%	1/4W
R2149	1-215-414-00	METAL	510	1%	1/4W
R2150	1-215-409-00	METAL	330	1%	1/4W
R2151	1-215-407-00	METAL	270	1%	1/4W
R2152	1-215-404-00	METAL	200	1%	1/4W
R2153	1-215-401-11	METAL	150	1%	1/4W
R2154	1-215-399-00	METAL	120	1%	1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
S2102	1-570-101-41	SWITCH, KEY BOARD	
S2103	1-570-101-41	SWITCH, KEY BOARD	
S2104	1-570-101-41	SWITCH, KEY BOARD	
S2105	1-570-101-41	SWITCH, KEY BOARD	

S2106 1-570-969-11 SWITCH, KEY BOARD

S2107 1-570-969-11 SWITCH, KEY BOARD

S2108 1-570-101-41 SWITCH, KEY BOARD

S2109 1-570-101-41 SWITCH, KEY BOARD

S2110 1-570-101-41 SWITCH, KEY BOARD

S2111 1-570-101-41 SWITCH, KEY BOARD

S2112 1-570-101-41 SWITCH, KEY BOARD

S2113 1-570-969-11 SWITCH, KEY BOARD

S2114 1-570-969-11 SWITCH, KEY BOARD

* A-1388-193-A J BOARD, COMPLETE

<CONNECTOR>

CN608 * 1-695-561-11 PIN, CONNECTOR (PC BOARD) 7P

<SWITCH>

S601 * 1-692-921-11 SWITCH, PUSH (A.C. POWER)

* A-1390-704-A X BOARD, COMPLETE

<CONNECTOR>

CN108 * 1-564-518-11 PLUG, CONNECTOR 3P

<DIODE>

D001	8-719-023-78	DIODE SEL3810DLC05
D002	8-719-023-78	DIODE SEL3810DLC05
D003	8-719-023-78	DIODE SEL3810DLC05
D004	8-719-023-78	DIODE SEL3810DLC05

* A-1390-705-A S BOARD, COMPLETE

(PVM-14M2U/14M4U)

<CAPACITOR>

C805	1-102-978-00	CERAMIC	220PF	5%	50V
C806	1-136-165-00	FILM	0.1MF	5%	50V
C807	1-130-477-00	MYLAR	0.0033MF	5%	50V
C810	1-136-165-00	FILM	0.1MF	5%	50V
C811	1-136-165-00	FILM	0.1MF	5%	50V

C812	1-136-495-11	FILM	0.068MF	5%	50V
C813	1-124-261-00	ELECT	10MF	20%	50V
C818	1-136-165-00	FILM	0.1MF	5%	50V

<CONNECTOR>

CN801 * 1-573-896-11 SOCKET, CONNECTOR 12P

<COIL>

L801 1-410-470-11 INDUCTOR 10UH

RV2101	1-241-238-21	RES, VAR, CARBON 20K
RV2103	1-225-385-11	RES, VAR, CARBON 20K
RV2105	1-225-385-11	RES, VAR, CARBON 20K
RV2109	1-225-385-11	RES, VAR, CARBON 20K
RV2113	1-225-385-11	RES, VAR, CARBON 20K

RV2117 1-241-238-21 RES, VAR, CARBON 20K

<SWITCH>

S2101 1-570-101-41 SWITCH, KEY BOARD



Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
<RESISTOR>								
R802	1-249-435-11	CARBON	33K 5%	1/4W	C2447	1-124-234-00	ELECT	22MF 20% 16V
R803	1-247-863-91	CARBON	22K 5%	1/4W	C2448	1-124-234-00	ELECT	22MF 20% 16V
R804	1-215-454-00	METAL	24K 1%	1/4W	C2449	1-124-234-00	ELECT	22MF 20% 16V
R805	1-215-461-00	METAL	47K 1%	1/4W	C2450	1-124-234-00	ELECT	22MF 20% 16V
R808	1-249-417-11	CARBON	1K 5%	1/4W	C2451	1-124-589-11	ELECT	47MF 20% 16V
R812	1-249-417-11	CARBON	1K 5%	1/4W	C2452	1-124-589-11	ELECT	47MF 20% 16V
R813	1-249-417-11	CARBON	1K 5%	1/4W	C2454	1-126-163-11	ELECT	4.7MF 20% 25V
R815	1-247-843-11	CARBON	3.3K 5%	1/4W	C2461	1-165-319-11	CERAMIC CHIP	0.1MF 50V
R816	1-249-418-11	CARBON	1.2K 5%	1/4W	C2462	1-165-319-11	CERAMIC CHIP	0.1MF 50V
R817	1-249-418-11	CARBON	1.2K 5%	1/4W	C2463	1-165-319-11	CERAMIC CHIP	0.1MF 50V
R818	1-249-418-11	CARBON	1.2K 5%	1/4W	C2464	1-165-319-11	CERAMIC CHIP	0.1MF 50V
R819	1-249-418-11	CARBON	1.2K 5%	1/4W	C2465	1-165-319-11	CERAMIC CHIP	0.1MF 50V
R820	1-249-422-11	CARBON	2.7K 5%	1/4W	C2466	1-165-319-11	CERAMIC CHIP	0.1MF 50V

1-537-735-14 TERMINAL BOARD ASSY, I/O(A)				<CONNECTOR>				
*****				*****				
(Q BOARD)				CN306	1-564-526-11	PLUG, CONNECTOR 11P		
2-990-241-02	HOLDER (A), PLUG			CN307	1-564-522-11	PLUG, CONNECTOR 7P		
3-178-213-21	SCREW +P 3X10			CN308	1-564-519-11	PLUG, CONNECTOR 4P		
7-685-135-19	SCREW +P 2.6X10 TYPE2 SLIT			CN2401	Δ 1-251-263-11	INLET, AC		
*****				CN2402	1-565-167-12	TERMINAL, (S) (WITH SW) 4P		
<CAPACITOR>				CN2403	1-569-578-11	TERMINAL, S (WITH SW)		
*****				CN2404	1-764-872-11	CONNECTOR, MULTI 20P		
C2401	1-163-111-00	CERAMIC CHIP	56PF 5%	50V	<DIODE>			
C2402	1-104-396-11	ELECT	10MF 20%	16V	D2402	8-719-016-74	DIODE 1SS352	
C2403	1-104-396-11	ELECT	10MF 20%	16V	D2404	8-719-800-76	DIODE 1SS226	
C2404	1-104-396-11	ELECT	10MF 20%	16V	D2405	8-719-800-76	DIODE 1SS226	
C2405	1-124-589-11	ELECT	47MF 20%	16V	D2406	8-719-800-76	DIODE 1SS226	
C2406	1-104-396-11	ELECT	10MF 20%	16V	D2407	8-719-800-76	DIODE 1SS226	
C2407	1-104-396-11	ELECT	10MF 20%	16V	D2408	8-719-800-76	DIODE 1SS226	
C2408	1-104-396-11	ELECT	10MF 20%	16V	D2409	8-719-800-76	DIODE 1SS226	
C2409	1-124-234-00	ELECT	22MF 20%	16V	D2410	8-719-800-76	DIODE 1SS226	
C2410	1-163-033-91	CERAMIC CHIP	0.022MF 50V		D2411	8-719-800-76	DIODE 1SS226	
C2411	1-104-396-11	ELECT	10MF 20%	16V	D2415	8-719-800-76	DIODE 1SS226	
C2412	1-104-396-11	ELECT	10MF 20%	16V	D2416	8-719-800-76	DIODE 1SS226	
C2413	1-163-117-00	CERAMIC CHIP	100PF 5%	50V	D2417	8-719-800-76	DIODE 1SS226	
C2414	1-126-301-11	ELECT	1MF 20%	50V	D2418	8-719-800-76	DIODE 1SS226	
C2415	1-163-319-11	CERAMIC CHIP	0.1MF 50V		D2420	8-719-037-53	DIODE RD27SB-T1	
C2416	1-124-589-11	ELECT	47MF 20%	16V	D2421	8-719-037-53	DIODE RD27SB-T1	
C2418	1-163-033-91	CERAMIC CHIP	0.022MF 50V		D2422	8-719-037-53	DIODE RD27SB-T1	
C2422	1-124-234-00	ELECT	22MF 20%	16V	D2423	8-719-037-53	DIODE RD27SB-T1	
C2423	1-124-234-00	ELECT	22MF 20%	16V	<IC>			
C2424	1-163-033-91	CERAMIC CHIP	0.022MF 50V		IC2401	8-759-509-71	IC XRU4021BF-E2	
C2425	1-124-589-11	ELECT	47MF 20%	16V	IC2402	8-759-509-71	IC XRU4021BF-E2	
C2426	1-124-589-11	ELECT	47MF 20%	16V	IC2403	8-759-287-89	IC MM1113XFF	
C2427	1-124-234-00	ELECT	22MF 20%	16V	IC2404	8-759-084-76	IC MM1111XF	
C2428	1-163-033-91	CERAMIC CHIP	0.022MF 50V		IC2405	8-759-287-89	IC MM1113XFF	
C2429	1-124-234-00	ELECT	22MF 20%	16V	<JACK>			
C2430	1-163-033-91	CERAMIC CHIP	0.022MF 50V		J2401	1-562-261-71	CONNECTOR, COAXIAL (BNC)	
C2431	1-124-234-00	ELECT	22MF 20%	16V	J2402	1-766-738-11	BNC (WITH SW)	
C2432	1-124-234-00	ELECT	22MF 20%	16V	J2403	1-562-261-71	CONNECTOR, COAXIAL (BNC)	
C2433	1-163-033-91	CERAMIC CHIP	0.022MF 50V		J2404	1-766-738-11	BNC (WITH SW)	
C2434	1-124-463-00	ELECT	0.1MF 20%	50V	J2405	1-562-261-71	CONNECTOR, COAXIAL (BNC)	
C2435	1-163-033-91	CERAMIC CHIP	0.022MF 50V		J2406	1-766-738-11	BNC (WITH SW)	
C2436	1-124-234-00	ELECT	22MF 20%	16V	J2407	1-562-261-71	CONNECTOR, COAXIAL (BNC)	
C2437	1-163-033-91	CERAMIC CHIP	0.022MF 50V		J2408	1-766-738-11	BNC (WITH SW)	
C2438	1-124-234-00	ELECT	22MF 20%	16V	J2409	1-562-261-71	CONNECTOR, COAXIAL (BNC)	
C2439	1-124-234-00	ELECT	22MF 20%	16V	J2410	1-766-738-11	BNC (WITH SW)	
C2440	1-163-033-91	CERAMIC CHIP	0.022MF 50V		J2411	1-562-261-71	CONNECTOR, COAXIAL (BNC)	
C2441	1-124-234-00	ELECT	22MF 20%	16V	J2412	1-766-738-11	BNC (WITH SW)	
C2442	1-124-234-00	ELECT	22MF 20%	16V	— 108 —			
C2443	1-124-234-00	ELECT	22MF 20%	16V				
C2444	1-124-234-00	ELECT	22MF 20%	16V				
C2445	1-163-033-91	CERAMIC CHIP	0.022MF 50V					
C2446	1-163-033-91	CERAMIC CHIP	0.022MF 50V					



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
J2413	1-507-802-41	JACK, PIN (MOUNT TYPE)		R2417	1-216-073-00	METAL GLAZE 10K	5% 1/10W
J2414	1-507-802-41	JACK, PIN (MOUNT TYPE)		R2418	1-216-089-91	METAL GLAZE 47K	5% 1/10W
J2415	1-507-802-41	JACK, PIN (MOUNT TYPE)		R2419	1-216-073-00	METAL GLAZE 10K	5% 1/10W
J2416	1-507-802-41	JACK, PIN (MOUNT TYPE)		R2420	1-216-089-91	METAL GLAZE 47K	5% 1/10W
J2417	1-507-802-41	JACK, PIN (MOUNT TYPE)		R2421	1-216-073-00	METAL GLAZE 10K	5% 1/10W
J2418	1-507-802-41	JACK, PIN (MOUNT TYPE)		R2422	1-216-089-91	METAL GLAZE 47K	5% 1/10W
J2419	1-507-802-41	JACK, PIN (MOUNT TYPE)		R2423	1-216-073-00	METAL GLAZE 10K	5% 1/10W
J2420	1-507-802-41	JACK, PIN (MOUNT TYPE)		R2424	1-216-089-91	METAL GLAZE 47K	5% 1/10W
<CHIP CONDUCTOR>							
JR1	1-216-295-91	CONDUCTOR, CHIP		R2427	1-216-097-91	METAL GLAZE 100K	5% 1/10W
JR4	1-216-295-91	CONDUCTOR, CHIP		R2428	1-216-105-91	METAL GLAZE 220K	5% 1/10W
JR5	1-216-295-91	CONDUCTOR, CHIP		R2429	1-216-025-91	METAL GLAZE 100	5% 1/10W
JR7	1-216-295-91	CONDUCTOR, CHIP		R2430	1-216-115-00	METAL GLAZE 560K	5% 1/10W
JR12	1-216-295-91	CONDUCTOR, CHIP		R2431	1-216-077-00	METAL GLAZE 15K	5% 1/10W
JR13	1-216-295-91	CONDUCTOR, CHIP		R2432	1-214-775-00	METAL 82K	1% 1/4W
JR14	1-216-295-91	CONDUCTOR, CHIP		R2433	1-216-097-91	METAL GLAZE 100K	5% 1/10W
JR15	1-216-295-91	CONDUCTOR, CHIP		R2434	1-216-105-91	METAL GLAZE 220K	5% 1/10W
JR16	1-216-295-91	CONDUCTOR, CHIP		R2435	1-216-025-91	METAL GLAZE 100	5% 1/10W
JR17	1-216-295-91	CONDUCTOR, CHIP		R2436	1-216-115-00	METAL GLAZE 560K	5% 1/10W
JR19	1-216-295-91	CONDUCTOR, CHIP		R2437	1-216-295-91	CONDUCTOR, CHIP	
JR20	1-216-295-91	CONDUCTOR, CHIP		R2438	1-216-077-00	METAL GLAZE 15K	5% 1/10W
JR21	1-216-295-91	CONDUCTOR, CHIP		R2439	1-214-775-00	METAL 82K	1% 1/4W
JR23	1-216-295-91	CONDUCTOR, CHIP		R2440	1-216-105-91	METAL GLAZE 220K	5% 1/10W
JR30	1-216-295-91	CONDUCTOR, CHIP		R2441	1-216-097-91	METAL GLAZE 100K	5% 1/10W
JR34	1-216-295-91	CONDUCTOR, CHIP		R2442	1-216-025-91	METAL GLAZE 100	5% 1/10W
JR35	1-216-295-91	CONDUCTOR, CHIP		R2443	1-216-115-00	METAL GLAZE 560K	5% 1/10W
JR40	1-216-295-91	CONDUCTOR, CHIP		R2444	1-216-077-00	METAL GLAZE 15K	5% 1/10W
JR41	1-216-295-91	CONDUCTOR, CHIP		R2446	1-214-775-00	METAL 82K	1% 1/4W
JR43	1-216-295-91	CONDUCTOR, CHIP		R2447	1-216-105-91	METAL GLAZE 220K	5% 1/10W
JR46	1-216-295-91	CONDUCTOR, CHIP		R2448	1-216-097-91	METAL GLAZE 100K	5% 1/10W
JR47	1-216-295-91	CONDUCTOR, CHIP		R2449	1-216-025-91	METAL GLAZE 100	5% 1/10W
JR48	1-216-295-91	CONDUCTOR, CHIP		R2450	1-216-115-00	METAL GLAZE 560K	5% 1/10W
JR52	1-216-295-91	CONDUCTOR, CHIP		R2451	1-216-077-00	METAL GLAZE 15K	5% 1/10W
JR60	1-216-295-91	CONDUCTOR, CHIP		R2452	1-216-089-91	METAL GLAZE 47K	5% 1/10W
<TRANSISTOR>							
Q2401	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2453	1-216-073-00	METAL GLAZE 10K	5% 1/10W
Q2402	8-729-216-22	TRANSISTOR 2SA1162-G		R2455	2-216-113-00	METAL GLAZE 470K	5% 1/10W
Q2403	8-729-216-22	TRANSISTOR 2SA1162-G		R2458	1-216-295-91	CONDUCTOR, CHIP	
Q2404	8-729-216-22	TRANSISTOR 2SA1162-G		R2463	1-216-085-00	METAL GLAZE 33K	5% 1/10W
Q2405	8-729-216-22	TRANSISTOR 2SA1162-G		R2465	1-216-073-00	METAL GLAZE 10K	5% 1/10W
Q2408	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2466	1-216-073-00	METAL GLAZE 10K	5% 1/10W
Q2409	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2467	1-216-073-00	METAL GLAZE 10K	5% 1/10W
Q2410	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2470	1-214-702-00	METAL 75	1% 1/4W
Q2411	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2471	1-216-093-00	METAL GLAZE 68K	5% 1/10W
Q2412	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2472	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
Q2414	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2473	1-216-037-00	METAL GLAZE 330	5% 1/10W
Q2415	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2474	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q2416	8-729-216-22	TRANSISTOR 2SA1162-G		R2475	1-216-091-00	METAL GLAZE 56K	5% 1/10W
Q2417	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2476	1-214-702-00	METAL 75	10% 1/4W
<RESISTOR>							
R2401	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R2477	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R2402	1-216-043-91	METAL GLAZE 560	5% 1/10W	R2478	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R2404	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R2479	1-216-027-00	METAL GLAZE 120	5% 1/10W
R2405	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R2480	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2406	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R2481	1-216-093-00	METAL GLAZE 68K	5% 1/10W
R2407	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R2482	1-214-702-00	METAL 75	1% 1/4W
R2408	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R2483	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R2409	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R2484	1-216-027-00	METAL GLAZE 120	5% 1/10W
R2410	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R2485	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R2411	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R2486	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2412	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R2487	1-216-093-00	METAL GLAZE 68K	5% 1/10W
R2407	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R2488	1-214-702-00	METAL 75	1% 1/4W
R2408	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R2489	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R2409	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R2490	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R2410	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R2491	1-216-027-00	METAL GLAZE 120	5% 1/10W
R2411	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R2492	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2412	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R2493	1-216-093-00	METAL GLAZE 68K	5% 1/10W
R2413	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R2494	1-214-702-00	METAL 75	1% 1/4W
R2414	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R2495	1-214-702-00	METAL 75	1% 1/4W
R2415	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R2496	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R2416	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R2497	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W

**PVM-14M2U/14M4U/14M2E
PVM-14M4E/14M2A/14M4A**



Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2498	1-216-037-00	METAL GLAZE 330	5%	1/10W		MISCELLANEOUS	*****
R2499	1-216-049-91	METAL GLAZE 1K	5%	1/10W			
R3400	1-216-093-00	METAL GLAZE 68K	5%	1/10W			
R3402	1-216-091-00	METAL GLAZE 56K	5%	1/10W			
R3404	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W			
R3405	1-216-037-00	METAL GLAZE 330	5%	1/10W		Δ 1-223-417-11 RESISTOR ASSY (HIGH-VOLTAGE)	(14M4U/E/A)
R3406	1-216-049-91	METAL GLAZE 1K	5%	1/10W		Δ 1-426-442-21 COIL DEMAGNETIZATION	
R3408	1-216-093-00	METAL GLAZE 68K	5%	1/10W		Δ 1-451-457-11 DEFLECTION YOKE (14M4U/E/A)	
R3409	1-214-702-00	METAL 75	1%	1/4W		1-452-032-00 MAGNET,DISK ; 10mmØ	
R3410	1-216-091-00	METAL GLAZE 56K	5%	1/10W		1-452-094-00 MAGNET,ROTATABLE DISK ; 15mmØ	
R3411	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W		1-544-063-12 SPEAKER	
R3412	1-216-037-00	METAL GLAZE 330	5%	1/10W		Δ 1-576-231-11 FUSE (H.B.C.) 4A/250V	
R3413	1-216-073-00	METAL GLAZE 10K	5%	1/10W		Δ 1-590-910-11 CORD SET, POWER (14M2E/A, 14M4E/A)	
R3414	1-216-073-00	METAL GLAZE 10K	5%	1/10W		1-765-268-11 CORD, CONNECTION	
R3416	1-216-049-91	METAL GLAZE 1K	5%	1/10W		Δ 1-765-718-11 CORD SET, POWER (14M2U/14M4U)	
R3417	1-216-093-00	METAL GLAZE 68K	5%	1/10W		Δ 8-451-472-11 DEFLECTION YOKE (14M2U/E/A)	
R3418	1-214-702-00	METAL 75	1%	1/4W		Δ 8-738-333-05 PICTURE TUBE 14MT1 (L-BVM, PVM)	(14M4E/A)
R3419	1-216-037-00	METAL GLAZE 330	5%	1/10W		Δ 8-738-335-05 PICTURE TUBE 14MT3(L-BVM, PVM)	(14M4U)
R3420	1-216-023-00	METAL GLAZE 82	5%	1/10W		Δ 8-738-342-05 PICTURE TUBE 14MG(DARK) (14M2U/E/A)	
R3421	1-216-689-11	METAL GLAZE 39K	5%	1/10W			
R3422	1-216-049-91	METAL GLAZE 1K	5%	1/10W		*****	
R3423	1-216-083-00	METAL GLAZE 27K	5%	1/10W		ACCESSORIES AND PACKING MATERIALS	*****
R3424	1-216-049-91	METAL GLAZE 1K	5%	1/10W			
R3425	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W			
R3426	1-216-099-00	METAL GLAZE 120	5%	1/10W			
R3427	1-216-089-91	METAL GLAZE 47K	5%	1/10W		3-170-078-01 HOLDER (B), PLUG	
R3428	1-216-073-00	METAL GLAZE 10K	5%	1/10W		3-859-663-12 MANUAL, INSTRUCTION	(14M2E/14M4E only)
R3429	1-216-089-91	METAL GLAZE 47K	5%	1/10W		3-859-663-22 MANUAL, INSTRUCTION	
R3430	1-216-073-00	METAL GLAZE 10K	5%	1/10W		4-044-040-03 LABEL, TALLY	
R3431	1-216-089-91	METAL GLAZE 47K	5%	1/10W		* 4-058-820-01 INDIVIDUAL CARTON	
R3432	1-216-073-00	METAL GLAZE 10K	5%	1/10W		* 4-381-155-01 BAG, PROTECTION	
R3435	1-216-045-91	METAL GLAZE 680	5%	1/10W			
R3436	1-216-045-91	METAL GLAZE 680	5%	1/10W			
R3437	1-216-045-91	METAL GLAZE 680	5%	1/10W			
R3438	1-216-045-91	METAL GLAZE 680	5%	1/10W			
R3439	1-216-045-91	METAL GLAZE 680	5%	1/10W			
<SWITCH>							
S2401	1-570-598-11	SWITCH, DIP					

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